

State of New Jersey

CHRIS CHRISTIE

Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code – 401-02B
Division of Water Quality
Bureau of Surface Water Permitting
P.O. Box 420 – 401 E State St

BOB MARTIN Commissioner

KIM GUADAGNO Lt. Governor

Trenton, NJ 08625-0420 Phone: (609) 292-4860 / Fax: (609) 984-7938

November 2, 2015

Via Email

Richard Fitament, Executive Director Middlesex County Utilities Authority Po Box 159 Sayreville, NJ 08872-0159

Re: Surface Water Permit Correction

Category: A -Sanitary Wastewater
CSM -Combined Sewer Management

NJPDES Permit No. NJ0020141

Middlesex County Utilities Authority Sayreville Boro, Middlesex County

Dear Mr. Fitament:

Enclosed is a New Jersey Pollutant Discharge Elimination System (NJPDES) permit correction. This action serves to correct the recent minor modification that was issued by the Department, dated October 9, 2015. That minor modification, among other things, extended the Long Term Control Plan submittal date schedule from 3 years to 59 months. This change was reflected in Part IV D.4. but was not reflected in the CSO Submittal Summary. This correction includes the proper 59 month CSO Submittal Summary. Enclosed with this letter is the October 9, 2015 minor modification with the corrected CSO Submittal Summary.

Questions or comments regarding this correction should be addressed to Dwayne Kobesky via email at Dwayne.Kobesky@dep.nj.gov or phone at (609) 292-4860.

Sincerely,

Joseph Mannick,

Supervisor

Bureau of Surface Water Permitting

Enclosures

cc: Permit Distribution List Masterfile #: 49099; PI #: 207732



State of New Jersey

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BOB MARTIN Commissioner

October 9, 2015

Via Email

Richard Fitament, Executive Director Middlesex County Utilities Authority Po Box 159 Sayreville, NJ 08872-0159

Re: Final Surface Water Minor Mod Permit Action

Category: A -Sanitary Wastewater CSM -Combined Sewer Management NJPDES Permit No. NJ0020141 Middlesex County Utilities Authority Sayreville Boro, Middlesex County

Dear Mr. Fitament:

Enclosed is a **final** New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. This permit action serves to modify the renewal permit that was issued by the Department on March 12, 2015. This minor modification serves to correct some typographical errors, clarify the CSO Submittal Summary and extend the LTCP compliance schedule. These changes and the affected portion of the permit are as follows:

1. Public Participation Submittal Requirements, CSM Part IV.D.3.b.iii.

Language is changed as follows with deletions shown as strikethrough and additions shown as underline:

- b. The permittee shall develop an approvable LTCP that will include the Elements contained in Section G. The LTCP shall consist of the following steps and be submitted according to the schedule below.....
- iii. Step 1b2 In accordance with G.2., the permittee shall submit the Public Participation Process Report Plan: within 36 months from the effective date of the permit (EDP).

1a. Public Participation Process, CSM Part IV.G.2.a and b.i

- a. The permittee shall submit the Public Participation Process Report Plan...
- b. Implementation shall actively involve the affected public throughout....A Public Participation <u>Process Report Plan</u> shall include the following elements:
- i. Conduct outreach to inform the affected/interested public (during the development of the permittee's LTCP) through various methods which may include including: public meetings, direct mailers, billing inserts, newsletters, press releases to the media, postings of information on the permittee's website, hotline, development of advisory committees, etc.; and to

Rationale for change: The Public Participation Plan (Parts IV D.3.b.iii, G. 2. a. & b.) has been renamed to Public Participation Process Report for consistency and to reflect the fact that it is not due until after the plan has been implemented. Additionally, the change to Part IV.G.2.b.i ensures that the permit language is consistent with the Response to Comment document in the March 12, 2015 final permit. Response to comment #32 of section D includes the excerpt as written above; however, the permit did not carry forward that intended language.

2. Evaluation of Alternatives, CSM Part IV.G.4.f

Language is changed as follows:

f. The "Presumption" Approach, in accordance with N.J.A.C 7:14A-11 Appendix C provides:.....

The permittee must demonstrate any each of the following three criteria below:.

- i. No more than an average of four overflow events (see below) per year from a hydraulically connected system as the result of a precipitation event that does not receive the minimum treatment specified below. The Department may allow up to two additional overflow events per year. For the purpose of this criterion, an 'event' is:
 - In a hydraulically connected system that contains only one CSO outfall, multiple periods of overflow are considered one overflow event if the time between periods of overflow is no more than 24 hours.
 - In a hydraulically connected system that contains more than one CSO outfall, multiple periods of overflow from one or more outfalls are considered one overflow event if the time between periods of overflow is no more than 24 hours without a discharge from any outfall.
- ii. The elimination or the capture for treatment of no less than 85% by volume of the combined sewage collected in the CSS during precipitation events on a hydraulically connected system-wide annual average basis.
- iii. The elimination or removal of no less than the mass of the pollutants, identified as causing water quality impairment through the sewer system characterization, monitoring, and modeling effort, for the volumes that would be eliminated or captured for treatment under Section G.4.f.ii.

Rationale for change: This change ensures that the permit language is consistent with the CSO Control Policy as stated at N.J.A.C. 7:14A-11. Specifically, N.J.A.C. 7:14A-11 Appendix C describes the Presumption Approach as "A program that meets **any** of the criteria listed below would be presumed to provide an adequate level of control to meet the water quality-based requirements of the CWA..." (bold added)

3. Cost/Performance Consideration, CSM Part IV.G.5.a

Language is changed as follows with deletions shown as strikethrough and additions shown as underline:

a. The permittee shall submit in accordance with the submittal requirements at Sections D.3.a. and D.3.b.v., the cost/performance considerations that demonstrate the relationships among proposed control alternatives that correspond to those required in accordance with Section G.4.....

In accordance with Section G.1.a., the permittee may use previous studies to the extent that they are accurate and representative of a properly operated and maintained sewer system and of the currently required information, such as: Include bulleted list of all applicable studies here

For MCUA:

- Central Treatment Plant Conveyance and Capacity Analysis, Cost Performance Analysis Report NJPDES Permit No. NJ0020141, prepared by CDM, dated August 2007.

For Perth Amboy City:

- Long Term Combined Sewer Overflow Control Plan Cost and Performance Analysis Report for the City of Perth Amboy Utilities Service Affiliates USAPA, prepared by CDM, dated April 2007 and revised August 2008.

Rationale for change: The change to Part IV.G.5.a corrects a typographical error that was included in the March 12, 2015 final permit. The studies referenced in Part IV.G.5.a. of the November 22, 2013 Draft permit were inadvertently omitted in the March 12, 2015 final permit and are hereby being included in this final permit modification.

4. Submittals, CSM Part IV.D.3. a and b. (Long Term Control Plan (LTCP) Submittal Requirements)

Language is changed as follows with deletions shown as strikethrough and additions shown as underline:

- a. The Department encourages a single LTCP to be developed and submitted on behalf of all of the permittees in a hydraulically connected sewer system. If the STP and the hydraulically connected municipalities work cooperatively to develop and implement a single, coordinated LTCP, the permittee may request an extension of time to the LTCP compliance schedule due dates consistent with Part-IV.D.3.b below.
- b. The permittee shall develop an approvable LTCP that will include the Elements contained in Section G. The LTCP shall consist of the following steps and be submitted according to the schedule below.
 - i. Step 1a System Characterization Work Plan for the LTCP In accordance with Section G.1., unless otherwise approved by the Department in writing, the permittee shall submit an approvable System Characterization Work Plan: within 6 months from the effective date of the permit (EDP).
 - ii. Step 1b1 In accordance with G.1., the permittee shall submit the System Characterization Report: within 36 24 months from the effective date of the permit (EDP).
 - iii. Step 1b2 In accordance with G.2., the permittee shall submit the Public Participation Process Report Plan: within 36 24 months from the effective date of the permit (EDP).
 - iv. Step 1b3 In accordance with G.3., the permittee shall submit the Consideration of Sensitive Areas Information of the LTCP: within 36 24 months from the effective date of the permit (EDP).
 - v. Step 2 Development and Evaluation of Alternatives for the LTCP In accordance with Sections G.2. through G.5. and G.9., the permittee shall submit an approvable Development and Evaluation of Alternatives Report: within 48 30 months from the effective date of the permit (EDP).
 - vi. Step 3 Selection and Implementation of the LTCP: In accordance with Sections G.2. and G.6. through G.9., the permittee shall submit an approvable Selection and Implementation of Alternatives Report: within 59 36 months from the effective date of the permit (EDP).
 - vii. Upon Departmental approval of the LTCP, the permittee shall begin implementation of the LTCP in accordance with the schedule contained therein.
- c. In accordance with Section G.9., the permittee shall submit an approvable baseline Compliance Monitoring Program (CMP) Work Plan: within 6 months from the effective date of the permit (EDP).
- d. Unless otherwise specified by the Department, in accordance with Section G.9. and the approved work plan, the permittee shall submit an approvable baseline CMP Report and data: within 36 24 months from the effective date of the permit (EDP).

Rationale for change: The Middlesex County Utilities Authority (MCUA) in a letter, dated September 25, 2015, requested an extension to the submittal dates for their Long Term Control Plan (from 3 years to 59 months). The Department acknowledges that MCUA will develop one LTCP for MCUA and the City of Perth Amboy. The permit is being modified to reflect a 59 month compliance schedule as the Department has done for other permittees working to develop a single LTCP for their service area.

5. Clarification of CSO Submittal Summary

The Department included a CSO Submittal Summary as an attachment to the cover letter for all NJPDES CSO permits. We have attached an updated version of the CSO Submittal Summary to include the actual dates; organized the items in chronological order; and corrected the discrepancy within the CSO Submittal Summary so that it is consistent with the requirements of CSM Part IV. Note, the LTCP due dates for your facility have changed based upon an extension from 36 months to 59 months to the compliance submittal for the LTCP.

To illustrate the changes regarding the Emergency Plan and Public Participation, an <u>excerpt</u> of the CSO Submittal Summary is as follows with deletions shown as strikethrough and additions shown as underline:

Summary of Reports or Requirements that are to be Completed and Retained On-Site (i.e. not submitted to the Department)						
Permit Condition	Permit Condition LTCP					
	Abbreviated Description of Requirement	Due Date				
Part IV.D.3.b.iii	Submit Public Participation Process Report Plan					
Part IV.D.4.b.iv	Update O&M Manual with SOPs, Asset Management Plan and	EDP+12 months July				
	Emergency Plan	1, 2016 and Annually				
		thereafter				
Part IV.F.1.1	Insert Emergency Plan in O&M Manual	EDP+6 months				

<u>Rationale for change:</u> In addition to organizing the CSO Submittal Summary by due date (not permit section) the Public Participation Process Plan has been renamed to Public Participation Process Report for consistency and to reflect the fact that it is not due until after the plan has been implemented.

Also, the due date for updates to the O&M and Emergency Plan has been corrected to reflect the permit requirement at Part IV-CSM, section F.1.a. This section reads, in part: The permittee shall continue to update annually, an Operation & Maintenance (O&M) Program and corresponding Manual, including an Emergency Plan.

6. Changes to Part III for DSN 007A

While the Department addressed issues relating to CPO at outfalls 001A and 007A in the Response to Comments on the Category A portion of the March 12, 2015 renewal permit, the Department erroneously did not incorporate a stay for the CPO limits at DSN 007A for all phases consistent with the previous permit action. In addition, while the Department issued a minor modification on July 17, 2015 to incorporate the conditional use of outfall 007A at Part IV, language regarding this conditional use was not included in Table III-B-1.

Rationale for change: These errors are corrected in this permit action which affects Table III-B-1.

Please note that the Department continues to post a variety of resources on our website at http://www.state.nj.us/dep/dwq/cso.htm. The Progress Report Template; Quick Guide for CSO Discharge Monitoring Report (DMR) Form Submission; and Questions from External Team Meetings may be helpful tools in permit compliance.

Questions or comments regarding the final action should be addressed to Dwayne Kobesky via email at Dwayne.Kobesky@dep.nj.gov or phone at (609) 292-4860.

Sincerely,

Joseph Mannick,

Joseph mannick

Supervisor

Bureau of Surface Water Permitting

Enclosures

cc: Permit Distribution List Masterfile #: 5280; PI #: 46606

CSO Submittal Summary

Summary of Reports Required to be Submitted to the Department						
Permit	59 Month LTCP					
Condition	Abbreviated Description of Requirement	Due Date				
Part III	Discharge Monitoring Reports (due 25 th day of the	Monthly from July 1,				
	month following the reporting period) -	2015				
	Solids/Floatables and Precipitation					
Part IV.D.4.a	Submit Progress Reports (due 25 th day of the month	Quarterly from July				
	following the quarter)	1, 2015				
Part III	Discharge Monitoring Report (due 25 th day of the	Monthly from				
	month following the reporting period) – Duration of	January 1, 2016				
	Discharge					
Part IV.D.2.a	Submit GPS latitude and longitude for pump	January 1, 2016				
	stations, CSO regulators and CSO outfalls					
Part IV.D.3.b.i	Submit System Characterization Work Plan	January 1, 2016				
Part IV.D.3.c	Submit Baseline Compliance Monitoring Program	January 1, 2016				
	Work Plan					
Part IV.D.2.b	Submit a map of combined and separate sewer areas	July 1, 2016				
Part IV.D.3.b.ii	Submit System Characterization Report	July 1, 2018				
Part IV.D.3.b.iii	Submit Public Participation Process Report	July 1, 2018				
Part IV.D.3.d	Submit Compliance Monitoring Program Report	July 1, 2018				
Part IV.D.3.b.iv	Submit Consideration of Sensitive Areas Plan	July 1, 2018				
Part IV.D.3.b.v	Submit Development and Evaluation of Alternatives	July 1, 2019				
	Report					
Part IV.D.3.b.vi	Submit Selection and Implementation of	June 1, 2020				
	Alternatives Report in the Final LTCP					

Summary of Reports or Requirements that are to be Completed and							
Retained On-Site (i.e. not submitted to the Department)							
Permit	Permit						
Condition	Abbreviated Description of Requirement	Due Date					
Part IV.D.2.c	Install outfall signs	January 1, 2016					
Part IV.F.1.f.	Update the characterization of the system's	January 1, 2016					
	infrastructure (list of sewer system components and						
	SIUs) using a spreadsheet						
Part IV.F.1.h	Create anticipated schedule to revise	January 1, 2016					
	Rules/Ordinances/Sewer Use Agreements to reduce						
	I/I						
Part IV.F.1.i	Insert SOPs in O&M Manual	January 1, 2016					
and Part							
IV.D.4.b.iv							
Part IV.F.1.g	Insert characterization on a GIS Map	July 1, 2016					
Part IV.F.8.c.iii	Create and maintain Telephone Hot Line or Website	July 1, 2016					
Part IV.D.4.b.iv	Update O&M Manual with SOPs, Asset	July 1, 2016 and					
	Management Plan and Emergency Plan	Annually thereafter					
Part IV.F.1.k	Insert and update an Asset Management Plan in	July 1, 2016 and					
	O&M Manual	Annually thereafter					

FACILITY SUBMITTALS

1. GDR - General Discharge Requirements

Task Description	Actual Due Date
Submit a Complete Permit Renewal Application	01/02/2020

2. A - Sanitary Wastewater

Task Description	Actual Due Date
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2015
Submit the written technical evaluation of need to revise local limits	01/01/2016
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2016
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2016
Compliance Schedule Progress Report	07/01/2016
Annual Pretreatment Program Report	07/01/2016
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2016
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2016
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2017
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2017
Compliance Schedule Progress Report	07/01/2017
Annual Pretreatment Program Report	07/01/2017
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2017
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2017
Submit the Final PCB Sampling Report	01/01/2018
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2018
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2018
Annual Pretreatment Program Report	07/01/2018
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2018
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2018
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2019
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2019
Annual Pretreatment Program Report	07/01/2019
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2019
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2019
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2020
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2020

Facility Submittals Page 1 of 2

3. CSM - Combined Sewer Management

Task Description	Actual Due Date
Submit a Progress Report	10/26/2015
submit the GPS data	01/01/2016
Submit an approvable System Characterization Work Plan	01/01/2016
Submit an approvable baseline Compliance Monitoring Program (CMP) Work Plan	01/01/2016
Submit a Progress Report	01/26/2016
Submit a Progress Report	04/26/2016
Submit a PDF of a sewer map	07/01/2016
Submit a Progress Report	07/26/2016
Submit a Progress Report	10/26/2016
Submit a Progress Report	01/26/2017
Submit a Progress Report	04/26/2017
Submit a Progress Report	07/26/2017
Submit a Progress Report	10/26/2017
Submit a Progress Report	01/26/2018
Submit a Progress Report	04/26/2018
Submit the System Characterization Report	07/01/2018
Submit the Consideration of Sensitive Areas Information of the LTCP	07/01/2018
Submit an approvable baseline CMP Report and data	07/01/2018
Submit the Public Participation Process Report	07/01/2018
Submit a Progress Report	07/26/2018
Submit a Progress Report	10/26/2018
Submit a Progress Report	01/26/2019
Submit a Progress Report	04/26/2019
Submit an approvable Development and Evaluation of Alternatives Report	07/01/2019
Submit a Progress Report	07/26/2019
Submit a Progress Report	10/26/2019
Submit a Progress Report	01/26/2020
Submit a Progress Report	04/26/2020
Submit an approvable Selection and Implementation of Alternatives Report	06/01/2020

Facility Submittals Page 2 of 2

Table of Contents

NJPDES Permit Number: NJ0020141

Program Interest Number: 46606

This permit package contains the following items with an explanation as to which changes were incorporated into the minor modification as compared to the March 12, 2015 final permit:

- 1. Cover Letter N/A
- 2. CSO Submittal Summary MODIFIED
- 3. Facility Submittals UNCHANGED
- 4. Table of Contents N/A
- 5. Response to Comments Category A (Sanitary Wastewater) REMOVED FROM THIS COPY
- 6. Response to Comments Category CSM (Combined Sewer Management)
 -REMOVED FROM THIS COPY
- 7. NJPDES Permit Authorization Page MODIFIED
- 8. Part I General Requirements: NJPDES UNCHANGED
- 9. Part II General Requirements: Discharge Categories UNCHANGED
- 10. Part III Limits and Monitoring Requirements MODIFIED (Table III-B-1 only)
- 11. Part IV Sanitary Wastewater UNCHANGED
- 12. Part IV Combined Sewer Management MODIFIED
- 13. Appendix A: RWBR Approval Status List UNCHANGED
- 14. Appendix B: Design Standards for Design Storm Drain Inlets UNCHANGED



NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0020141

Final: Surface Water Minor Mod Permit Action

Permittee:

Middlesex County Utilities Authority PO BOX 159 Sayreville, NJ 08872-0159 **Co-Permittee:**

Property Owner:

Middlesex County Utilities Authority PO BOX 159 Sayreville, NJ 08872-0159 **Location Of Activity:**

Middlesex County UA Water Reclamation Center Combined Sewer Collection System Sayreville, Middlesex County, NJ 08872-0159

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
CSM -Combined Sewer Management (Minor Mod)	09/30/2015	07/01/2015	06/30/2020
A -Sanitary Wastewater	03/12/2015	07/01/2015	06/30/2020
CSM -Combined Sewer Management			

By Authority of: Commissioner's Office Joseph Mannick

DEP AUTHORIZATION
Joseph Mannick, Supervisor
Bureau of Surface Water Permitting
Water Pollution Management Element
Division of Water Quality

(Terms, conditions and provisions attached hereto)

Division of Water Quality

PART I GENERAL REQUIREMENTS: NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.

b. General Conditions

Penalties for Violations	N.J.A.C. 7:14-8.1 et seq.
Incorporation by Reference	N.J.A.C. 7:14A-2.3
Toxic Pollutants	N.J.A.C. 7:14A-6.2(a)4i
Duty to Comply	N.J.A.C. 7:14A-6.2(a)1 & 4
Duty to Mitigate	N.J.A.C. 7:14A-6.2(a)5 & 11
Inspection and Entry	N.J.A.C. 7:14A-2.11(e)
Enforcement Action	N.J.A.C. 7:14A-2.9
Duty to Reapply	N.J.A.C. 7:14A-4.2(e)3
Signatory Requirements for Applications and Reports	N.J.A.C. 7:14A-4.9
Effect of Permit/Other Laws	N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
Severability	N.J.A.C. 7:14A-2.2
Administrative Continuation of Permits	N.J.A.C. 7:14A-2.8
Permit Actions	N.J.A.C. 7:14A-2.7(c)
Reopener Clause	N.J.A.C. 7:14A-6.2(a)10
Permit Duration and Renewal	N.J.A.C. 7:14A-2.7(a) & (b)
Consolidation of Permit Process	N.J.A.C. 7:14A-15.5
Confidentiality	N.J.A.C. 7:14A-18.2 & 2.11(g)
Fee Schedule	N.J.A.C. 7:14A-3.1
Treatment Works Approval	N.J.A.C. 7:14A-22 & 23
Operation And Maintenance	

Operation And Maintenance

Need to Halt or Reduce not a Defense	N.J.A.C. 7:14A-2.9(b)
Proper Operation and Maintenance	N.J.A.C. 7:14A-6.12

d. Monitoring And Records

Monitoring	N.J.A.C. 7:14A-6.5
Recordkeeping	N.J.A.C. 7:14A-6.6
Signatory Requirements for Monitoring Reports	N.J.A.C. 7:14A-6.9

e. Reporting Requirements

Transfer

Planned Changes	N.J.A.C. 7:14A-6.7
Reporting of Monitoring Results	N.J.A.C. 7:14A-6.8
Noncompliance Reporting	N.J.A.C. 7:14A-6.10 & 6.8(h)
Hotline/Two Hour & Twenty-four Hour Reporting	N.J.A.C. 7:14A-6.10(c) & (d)
Written Reporting	N.J.A.C. 7:14A-6.10(e) &(f) & 6.8(h)
Duty to Provide Information	N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
Schedules of Compliance	N.J.A.C. 7:14A-6.4

N.J.A.C. 7:14A-6.2(a)8 & 16.2

GENERAL REQUIREMENTS Page 1 of 1

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

1. Requirements for Discharges to Surface Waters

- a. In addition to conditions in Part I of this permit, the conditions in this section are applicable to activities at the permitted location and are incorporated by reference. The permittee is required to comply with the regulations which are in effect as of the effective date of the final permit.
 - i. Surface Water Quality Standards N.J.A.C. 7:9B-1
 - ii. Water Quality Management Planning Regulations N.J.A.C. 7:15

B. General Conditions

1. Scope

a. The issuance of this permit shall not be considered as a waiver of any applicable federal, state, and local rules, regulations and ordinances.

2. Permit Renewal Requirement

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.
- b. Submit a complete permit renewal application: 180 days before the Expiration Date.

3. Notification of Non-Compliance

- a. The permittee shall notify the Department of all non-compliance when required in accordance with N.J.A.C. 7:14A-6.10 by contacting the DEP HOTLINE at 1-877-WARNDEP (1-877-927-6337).
- b. The permittee shall submit a written report as required by N.J.A.C. 7:14A-6.10 within five days.

4. Notification of Changes

- a. The permittee shall give written notification to the Department of any planned physical or operational alterations or additions to the permitted facility when the alteration is expected to result in a significant change in the permittee's discharge and/or residuals use or disposal practices including the cessation of discharge in accordance with N.J.A.C. 7:14A-6.7.
- b. Prior to any change in ownership, the current permittee shall comply with the requirements of N.J.A.C. 7:14A-16.2, pertaining to the notification of change in ownership.

5. Access to Information

a. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to enter upon a person's premises, for purposes of inspection, and to access / copy any records that must be kept under the conditions of this permit.

6. Operator Certification

- a. Pursuant to N.J.A.C. 7:10A-1.1 et seq. every wastewater system not exempt pursuant to N.J.A.C. 7:10A-1.1(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10A-1.1 and any amendments. The name of the proposed operator, where required shall be submitted to the Department at the address below, in order that his/her qualifications may be determined prior to initiating operation of the treatment works.
 - Notifications shall be submitted to: NJDEP Bureau of Licensing & Pesticide Operations Mailcode 401-04E P.O. Box 420 Trenton, New Jersey 08625-0420
- b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

7. Operation Restrictions

(609)984-6507.

a. The operation of a waste treatment or disposal facility shall at no time create: (a) a discharge, except as authorized by the Department in the manner and location specified in Part III of this permit; (b) any discharge to the waters of the state or any standing or ponded condition for water or waste, except as specifically authorized by a valid NJPDES permit.

C. Custom Requirement

1. CSO Reopener Clause

a. This reopener clause authorizes the NJDEP to reopen and modify the permit upon determination that the CSO controls as contained in an approved LTCP fail to meet WQS or protect designated uses.

PART III LIMITS AND MONITORING REQUIREMENTS

MONITORED LOCATION:

RECEIVING STREAM:

STREAM CLASSIFICATION:

DISCHARGE CATEGORY(IES):

001A Sanitary

Raritan Bay

SE1(C2)

A - Sanitary Wastewater

Location Description

Influent monitoring shall be before any treatment, other than degritting, and before the addition of any internal wastestreams. Effluent monitoring shall be after the last treatment step. (For WET, see Part IV.) Outfall 001A shall discharge treated wastewater to the Raritan Bay, classified as SE1, at Latitude: 40 deg. 28' 52.9" and Longitude: 74deg 15' 11.4".

Contributing Waste Types

Sanitary

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
TI I G I I	Tica G			1100					g d	361
Flow, In Conduit or	Effluent Gross	REI OIG	REPORT	MGD				****	Continuous	Metered
Thru Treatment Plant	Value	Monthly	Daily		****	****	****	*****		
		Average	Maximum							
January thru December	QL	***	***		***	***	***			
BOD, 5-Day (20 oC)	Raw					REPORT	REPORT	MG/L	1/Day	24 Hour
	Sew/influent	****	****	****	****	Monthly	Weekly			Composite
						Average	Average			
January thru December	QL	***	***	1	***	***	***]		
BOD, 5-Day (20 oC)	Effluent Gross	16692	25038	KG/DAY		30	45	MG/L	1/Day	24 Hour
	Value	Monthly	Weekly		****	Monthly	Weekly			Composite
		Average	Average			Average	Average			
January thru December	QL	***	***	1	***	***	***]		
BOD, 5-Day (20 oC)	Percent				85			PERCENT	1/Day	Calculated
	Removal	****	****	****	Monthly Av	****	****			
					Minimum					
January thru December	QL	***	***		***	***	***]		

Limits And Monitoring Requirements

Page 1 of 38

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
pН	Raw				REPORT		REPORT	SU	6/Day	Grab
	Sew/influent	****	****	****	Report Per	****	Instant		-	
					Minimum		Maximum			
January thru December	QL	***	***		***	***	***			
pН	Effluent Gross				6.0		9.0	SU	6/Day	Grab
	Value	****	****	****	Report Per	****	Report Per		-	
					Minimum		Maximum			
January thru December	QL	***	***		***	***	***			
Solids, Total	Raw					REPORT	REPORT	MG/L	1/Day	24 Hour
Suspended	Sew/influent	****	****	****	****	Monthly	Weekly		•	Composite
						Average	Average			
January thru December	QL	***	***		***	***	***			
Solids, Total	Effluent Gross	16692	25038	KG/DAY		30	45	MG/L	1/Day	24 Hour
Suspended	Value	Monthly	Weekly		****	Monthly	Weekly		•	Composite
		Average	Average			Average	Average			
January thru December	QL	***	***		***	***	***			
Solids, Total	Percent				85			PERCENT	1/Day	Calculated
Suspended	Removal	****	****	****	Monthly Av	****	****		-	
					Minimum					
January thru December	QL	***	***		***	***	***			
Oil and Grease	Effluent Gross					10	15	MG/L	2/Month	Grab
	Value	****	****	****	****	Monthly	Instant			
						Average	Maximum			
January thru December	QL	***	***		***	***	***			
Nitrogen, Ammonia	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	1/Quarter	24 Hour
Total (as N)	Value	Monthly	Daily		****	Monthly	Daily		-	Composite
		Average	Maximum			Average	Maximum			
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Enterococci	Effluent Gross					REPORT	REPORT	#/100ML	1/Day	Grab
	Value	****	****	****	****	Monthly	Instant		•	
						Geo Avg	Maximum			
January thru December	QL	***	***		***	***	***			
Coliform, Fecal	Effluent Gross					200	400	#/100ML	1/Day	Grab
General	Value	****	****	****	****	Monthly	Weekly		-	
						Geo Avg	Geometric			
January thru December	QL	***	***		***	***	***			
LC50 Statre 96hr Acu	Effluent Gross				67			%EFFL	1/Quarter	Composite
Mysid Bahia	Value	****	****	****	Report Per	****	****			_
					Minimum					
January thru December	QL	***	***		***	***	***			
Chlorine Produced	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	6/Day	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily		•	
Option 1		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			
Chlorine Produced	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	6/Day	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily		•	
Option 2		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			
Temperature,	Raw				REPORT	REPORT	REPORT	DEG.C	6/Day	Grab
oC	Sew/influent	****	****	****	Report Per	Monthly	Report Per			
					Minimum	Average	Maximum			
January thru December	QL	***	***		***	***	***			
Temperature,	Effluent Gross				REPORT	REPORT	REPORT	DEG.C	6/Day	Grab
oC	Value	****	****	****	Report Per	Monthly	Report Per		-	
					Minimum	Average	Maximum			
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Oxygen, Dissolved	Effluent Gross					5.0		MG/L	1/Day	Grab
(DO)	Value	****	****	****	****	Weekly Av Minimum	****		-	
January thru December	QL	***	***		***	***	***			
Cyanide, Total (as CN)	Effluent Gross Value	REPORT Monthly	REPORT Daily	KG/DAY	****	REPORT Monthly	REPORT Daily	UG/L	1/Month	Grab
		Average	Maximum			Average	Maximum			
January thru December	RQL	22.3	22.3		***	40	40			
Arsenic, Total Recoverable (as As)	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	GR/DAY	****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Month	24 Hour Composite
January thru December	RQL	4450	4450		***	Average 8	8			
Selenium, Total Recoverable	Effluent Gross Value	REPORT Monthly Average	14000 Daily Maximum	GR/DAY	****	REPORT Monthly Average	25.1 Daily Maximum	UG/L	1/Month	24 Hour Composite
January thru December	RQL	5560	5560		***	10	10			
Zinc, Total Recoverable	Effluent Gross Value	REPORT Monthly Average	156000 Daily Maximum	GR/DAY	****	REPORT Monthly Average	280 Daily Maximum	UG/L	1/Month	24 Hour Composite
January thru December	RQL	16700	16700		***	30	30			
Mercury Total Recoverable Option 1	Effluent Gross Value	520 Monthly Average	REPORT Daily Maximum	GR/DAY	****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Month	24 Hour Composite
January thru December	RQL	556	556		***	1	1			
Mercury Total Recoverable Option 2	Effluent Gross Value	REPORT Monthly	REPORT Daily	GR/DAY	****	0.93 Monthly	REPORT Daily	UG/L	1/Month	24 Hour Composite
January thru December	RQL	Average 556	Maximum 556		***	Average 1	Maximum 1			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
1,4-Dichlorobenzene	Effluent Gross	REPORT	1080	GR/DAY		REPORT	1.95	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	11100	11100		***	20	20			
Bis(2-ethylhexyl)	Effluent Gross	REPORT	REPORT	GR/DAY		REPORT	30.7	UG/L	1/Month	24 Hour
phthalate	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	16700	16700		***	30	30			
Di-n-butyl phthalate	Effluent Gross	REPORT	5430	GR/DAY		REPORT	9.76	UG/L	1/Month	24 Hour
	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	11100	11100		***	20	20			
Dichlorobromomethane	Effluent Gross	REPORT	907	GR/DAY		REPORT	1.63	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	2780	2780		***	5	5			
Chloroform	Effluent Gross	REPORT	66500	GR/DAY		REPORT	120	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	2780	2780		***	5	5			
Toluene	Effluent Gross	REPORT	5390	GR/DAY		REPORT	16.9	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	3340	3340		***	6	6			
Methylene Chloride	Effluent Gross	REPORT	56300	GR/DAY		REPORT	101	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	5560	5560		***	10	10			

Limits And Monitoring Requirements
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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Tetrachloroethylene	Effluent Gross	REPORT	1990	GR/DAY		REPORT	3.58	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	5000	5000		***	9	9			
1,1,1-Trichloro-	Effluent Gross	REPORT	394	GR/DAY		REPORT	0.709	UG/L	1/Month	Grab
ethane	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	3340	3340		***	6	6			
Phenols	Effluent Gross	REPORT	13600	KG/DAY		REPORT	24500	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	QL	***	***		***	***	***			

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	MGD	****	****	****	****	Continuous	Metered
January thru December	QL	***	***		***	***	***			
BOD, 5-Day (20 oC)	Raw Sew/influent	****	****	****	****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Day	24 Hour Composite
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements Page 6 of 38

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
BOD, 5-Day (20 oC)	Effluent Gross Value	16692 Monthly Average	25038 Weekly Average	KG/DAY	****	30 Monthly Average	45 Weekly Average	MG/L	1/Day	24 Hour Composite
January thru December	QL	***	***	1	***	***	***			
BOD, 5-Day (20 oC)	Percent Removal	****	****	****	85 Monthly Av Minimum	****	****	PERCENT	1/Day	Calculated
January thru December	QL	***	***		***	***	***			
рН	Raw Sew/influent	****	****	****	REPORT Report Per Minimum	****	REPORT Instant Maximum	SU	6/Day	Grab
January thru December	QL	***	***	1	***	***	***			
рН	Effluent Gross Value	****	****	****	6.0 Report Per Minimum	****	9.0 Report Per Maximum	SU	6/Day	Grab
January thru December	QL	***	***	1	***	***	***			
Solids, Total Suspended	Raw Sew/influent	****	****	****	****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Day	24 Hour Composite
January thru December	QL	***	***]	***	***	***			
Solids, Total Suspended	Effluent Gross Value	16692 Monthly Average	25038 Weekly Average	KG/DAY	****	30 Monthly Average	45 Weekly Average	MG/L	1/Day	24 Hour Composite
January thru December	QL	***	***		***	***	***			
Solids, Total Suspended	Percent Removal	****	****	****	85 Monthly Av Minimum	****	****	PERCENT	1/Day	Calculated
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements Page 7 of 38

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Oil and Grease	Effluent Gross					10	15	MG/L	2/Month	Grab
	Value	****	****	****	****	Monthly	Instant			
						Average	Maximum			
January thru December	QL	***	***		***	***	***			
Nitrogen, Ammonia	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	1/Quarter	24 Hour
Total (as N)	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	QL	***	***		***	***	***			
Enterococci	Effluent Gross					35	REPORT	#/100ML	1/Day	Grab
	Value	****	****	****	****	Monthly	Instant			
						Geo Avg	Maximum			
January thru December	QL	***	***		***	***	***			
LC50 Statre 96hr Acu	Effluent Gross				67			%EFFL	1/Quarter	Composite
Mysid Bahia	Value	****	****	****	Report Per	****	****			
					Minimum					
January thru December	QL	***	***		***	***	***			
Chlorine Produced	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	6/Day	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
Option 1		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			
Chlorine Produced	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	6/Day	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
Option 2		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			
Temperature,	Raw				REPORT	REPORT	REPORT	DEG.C	6/Day	Grab
oC	Sew/influent	****	****	****	Report Per	Monthly	Report Per			
					Minimum	Average	Maximum			
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements
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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Temperature,	Effluent Gross				REPORT	REPORT	REPORT	DEG.C	6/Day	Grab
oC	Value	****	****	****	Report Per	Monthly	Report Per		_	
					Minimum	Average	Maximum			
January thru December	QL	***	***		***	***	***			
Oxygen, Dissolved	Effluent Gross					5.0		MG/L	1/Day	Grab
(DO)	Value	****	****	****	****	Weekly Av	****		-	
						Minimum				
January thru December	QL	***	***		***	***	***			
Cyanide, Total	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	UG/L	1/Month	Grab
(as CN)	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	22.3	22.3		***	40	40			
Arsenic, Total	Effluent Gross	REPORT	REPORT	GR/DAY		REPORT	REPORT	UG/L	1/Month	24 Hour
Recoverable (as As)	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	4450	4450		***	8	8			
Selenium, Total	Effluent Gross	REPORT	14000	GR/DAY		REPORT	25.1	UG/L	1/Month	24 Hour
Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	5560	5560		***	10	10			
Zinc,	Effluent Gross	REPORT	156000	GR/DAY		REPORT	280	UG/L	1/Month	24 Hour
Total Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	16700	16700		***	30	30			
Mercury	Effluent Gross	520	REPORT	GR/DAY		REPORT	REPORT	UG/L	1/Month	24 Hour
Total Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
Option 1		Average	Maximum			Average	Maximum			
January thru December	RQL	556	556		***	1	1			

Limits And Monitoring Requirements
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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Mercury	Effluent Gross	REPORT	REPORT	GR/DAY		0.93	REPORT	UG/L	1/Month	24 Hour
Total Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
Option 2		Average	Maximum			Average	Maximum			
January thru December	RQL	556	556	1	***	1	1			
1,4-Dichlorobenzene	Effluent Gross	REPORT	1080	GR/DAY		REPORT	1.95	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	11100	11100] [***	20	20			
Bis(2-ethylhexyl)	Effluent Gross	REPORT	REPORT	GR/DAY		REPORT	30.7	UG/L	1/Month	24 Hour
phthalate	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	16700	16700		***	30	30			
Di-n-butyl phthalate	Effluent Gross	REPORT	5430	GR/DAY		REPORT	9.76	UG/L	1/Month	24 Hour
	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	11100	11100		***	20	20			
Dichlorobromomethane	Effluent Gross	REPORT	907	GR/DAY		REPORT	1.63	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	2780	2780		***	5	5			
Chloroform	Effluent Gross	REPORT	66500	GR/DAY		REPORT	120	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	2780	2780		***	5	5			
Toluene	Effluent Gross	REPORT	5390	GR/DAY		REPORT	16.9	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum] [Average	Maximum			
January thru December	RQL	3340	3340		***	6	6			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Methylene Chloride	Effluent Gross	REPORT	56300	GR/DAY		REPORT	101	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	5560	5560		***	10	10			
Tetrachloroethylene	Effluent Gross	REPORT	1990	GR/DAY		REPORT	3.58	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	5000	5000		***	9	9			
1,1,1-Trichloro-	Effluent Gross	REPORT	394	GR/DAY		REPORT	0.709	UG/L	1/Month	Grab
ethane	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	3340	3340		***	6	6			
Phenols	Effluent Gross	REPORT	13600	KG/DAY		REPORT	24500	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	QL	***	***		***	***	***			

Table III - A - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final PHASE Start Date: 07/01/2018 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	MGD	****	****	****	****	Continuous	Metered
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final PHASE Start Date: 07/01/2018 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
BOD, 5-Day (20 oC)	Raw					REPORT	REPORT	MG/L	1/Day	24 Hour
	Sew/influent	****	****	****	****	Monthly	Weekly			Composite
						Average	Average			
January thru December	QL	***	***]	***	***	***			
BOD, 5-Day (20 oC)	Effluent Gross	16692	25038	KG/DAY		30	45	MG/L	1/Day	24 Hour
	Value	Monthly	Weekly		****	Monthly	Weekly			Composite
		Average	Average			Average	Average			
January thru December	QL	***	***]	***	***	***			
BOD, 5-Day (20 oC)	Percent				85			PERCENT	1/Day	Calculated
•	Removal	****	****	****	Monthly Av	****	****			
					Minimum					
January thru December	QL	***	***]	***	***	***			
pН	Raw				REPORT		REPORT	SU	6/Day	Grab
	Sew/influent	****	****	****	Report Per	****	Report Per			
					Minimum		Maximum			
January thru December	QL	***	***	1	***	***	***			
pН	Effluent Gross				6.0		9.0	SU	6/Day	Grab
	Value	****	****	****	Report Per	****	Report Per			
					Minimum		Maximum			
January thru December	QL	***	***	1	***	***	***			
Solids, Total	Raw					REPORT	REPORT	MG/L	1/Day	24 Hour
Suspended	Sew/influent	****	****	****	****	Monthly	Weekly			Composite
						Average	Average			
January thru December	QL	***	***		***	***	***			
Solids, Total	Effluent Gross	16692	25038	KG/DAY		30	45	MG/L	1/Day	24 Hour
Suspended	Value	Monthly	Weekly		****	Monthly	Weekly		•	Composite
		Average	Average			Average	Average			
January thru December	QL	***	***]	***	***	***			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final PHASE Start Date: 07/01/2018 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Solids, Total	Percent				85			PERCENT	1/Day	Calculated
Suspended	Removal	****	****	****	Monthly Av	****	****		•	
					Minimum					
January thru December	QL	***	***		***	***	***			
Oil and Grease	Effluent Gross					10	15	MG/L	2/Month	Grab
	Value	****	****	****	****	Monthly	Instant			
						Average	Maximum			
January thru December	QL	***	***		***	***	***			
Nitrogen, Ammonia	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	1/Quarter	24 Hour
Total (as N)	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	QL	***	***		***	***	***			
Enterococci	Effluent Gross					35	REPORT	#/100ML	1/Day	Grab
	Value	****	****	****	****	Monthly	Instant			
						Geo Avg	Maximum			
January thru December	QL	***	***		***	***	***			
LC50 Statre 96hr Acu	Effluent Gross				67			%EFFL	1/Quarter	Composite
Mysid Bahia	Value	****	****	****	Report Per	****	****			
					Minimum					
January thru December	QL	***	***		***	***	***			
Chlorine Produced	Effluent Gross	28.3	68.7	KG/DAY		0.051	0.124	MG/L	6/Day	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
Option 1		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			
Chlorine Produced	Effluent Gross	REPORT	REPORT	KG/DAY		0.051	0.124	MG/L	6/Day	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
Option 2		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final PHASE Start Date: 07/01/2018 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Temperature,	Raw				REPORT	REPORT	REPORT	DEG.C	6/Day	Grab
oC	Sew/influent	****	****	****	Report Per	Monthly	Report Per			
					Minimum	Average	Maximum			
January thru December	QL	***	***		***	***	***			
Temperature,	Effluent Gross				REPORT	REPORT	REPORT	DEG.C	6/Day	Grab
oC	Value	****	****	****	Report Per	Monthly	Report Per			
					Minimum	Average	Maximum			
January thru December	QL	***	***		***	***	***			
Oxygen, Dissolved	Effluent Gross					5.0		MG/L	1/Day	Grab
(DO)	Value	****	****	****	****	Weekly Av	****			
						Minimum				
January thru December	QL	***	***		***	***	***			
Cyanide, Total	Effluent Gross	1012	1734	KG/DAY		1820	3117	UG/L	1/Month	Grab
(as CN)	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	22.3	22.3		***	40	40			
Arsenic, Total	Effluent Gross	441	623	GR/DAY		0.79	1.12	UG/L	1/Month	24 Hour
Recoverable (as As)	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	4450	4450		***	8	8			
Selenium, Total	Effluent Gross	REPORT	14000	GR/DAY		REPORT	25.1	UG/L	1/Month	24 Hour
Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	5560	5560		***	10	10			
Zinc,	Effluent Gross	REPORT	156000	GR/DAY		REPORT	280	UG/L	1/Month	24 Hour
Total Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	RQL	16700	16700		***	30	30			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final PHASE Start Date: 07/01/2018 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Mercury	Effluent Gross	520	REPORT	GR/DAY		REPORT	REPORT	UG/L	1/Month	24 Hour
Total Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
Option 1		Average	Maximum			Average	Maximum			
January thru December	RQL	556	556		***	1	1			
Mercury	Effluent Gross	REPORT	REPORT	GR/DAY		0.93	REPORT	UG/L	1/Month	24 Hour
Total Recoverable	Value	Monthly	Daily		****	Monthly	Daily			Composite
Option 2		Average	Maximum			Average	Maximum			
January thru December	RQL	556	556		***	1	1			
1,4-Dichlorobenzene	Effluent Gross	REPORT	1080	GR/DAY		REPORT	1.95	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	11100	11100		***	20	20			
Bis(2-ethylhexyl)	Effluent Gross	REPORT	17100	GR/DAY		REPORT	30.7	UG/L	1/Month	24 Hour
phthalate	Value	Monthly	Daily		****	Monthly	Daily			Composite
		Average	Maximum			Average	Maximum			
January thru December	PQL	16700	16700		***	30	30			
Di-n-butyl phthalate	Effluent Gross	REPORT	5430	GR/DAY		REPORT	9.76	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	11100	11100		***	20	20			
Dichlorobromomethane	Effluent Gross	REPORT	907	GR/DAY		REPORT	1.63	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	2780	2780		***	5	5			
Chloroform	Effluent Gross	REPORT	66500	GR/DAY		REPORT	120	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	2780	2780		***	5	5			

Limits And Monitoring Requirements

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Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform. Effluent samples for conducing WET testing are to be collected prior to disinfection.

Table III - A - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final PHASE Start Date: 07/01/2018 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Toluene	Effluent Gross	REPORT	5390	GR/DAY		REPORT	16.9	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	3340	3340		***	6	6			
Methylene Chloride	Effluent Gross	REPORT	56300	GR/DAY		REPORT	101	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	5560	5560		***	10	10			
Tetrachloroethylene	Effluent Gross	REPORT	1990	GR/DAY		REPORT	3.58	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	5000	5000		***	9	9			
1,1,1-Trichloro-	Effluent Gross	REPORT	394	GR/DAY		REPORT	0.709	UG/L	1/Month	Grab
ethane	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	RQL	3340	3340		***	6	6			
Phenols	Effluent Gross	REPORT	13600	KG/DAY		REPORT	24500	UG/L	1/Month	Grab
	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements

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Surface Water WCR - Quarterly Reporting Requirements:

Submit a Quarterly WCR: within twenty-five days after the end of every quarterly monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 4: Surface Water WCR - Quarterly Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Manganese, Total	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Recoverable					
Nickel,	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Total Recoverable		RQL = 10		_	
Lead,	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Total Recoverable		RQL = 10		_	
Chromium,	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Total Recoverable		RQL = 10		_	
Copper,	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Total Recoverable		RQL = 10			

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Thallium, Total	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Recoverable		RQL = 10		_	

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Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Beryllium, Total	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Recoverable (as Be)		RQL = 20			
Barium, Total	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Recoverable (as Ba)		RQL = 20			
Silver,	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Total Recoverable		RQL = 2			
Cadmium,	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Total Recoverable		RQL = 4			
Antimony, Total	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Recoverable		RQL = 20			
Acenaphthylene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Acenaphthene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9.5			
Anthracene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Benzo(b)fluoranthene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
(3,4-benzo)					
Benzo(k)fluoranthene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Benzo(a)pyrene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Bis(2-chloroethyl)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
ether		RQL = 10			
Bis(2-chloroethoxy)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
methane		RQL = 26.5			
Bis (2-chloroiso-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
propyl) ether		RQL = 10			
Butyl benzyl	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
phthalate		RQL = 20			

Limits And Monitoring Requirements

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Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Chrysene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Diethyl phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Dimethyl phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
1,2-Diphenyl-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
hydrazine					
Fluoranthene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Fluorene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Hexachlorocyclo-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
pentadiene		RQL = 10			
Hexachloroethane	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Indeno(1,2,3-cd)-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
pyrene		RQL = 20			
Isophorone	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
N-nitrosodi-n-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
propylamine		RQL = 20			
N-nitrosodiphenyl-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
amine		RQL = 20			
N-nitrosodimethyl-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
amine		RQL = 20			
Nitrobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Phenanthrene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Pyrene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Benzo(ghi)perylene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Benzo(a)anthracene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
1,2-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 9			
1,2,4-Trichloro-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
benzene		RQL = 10			
Dibenzo(a,h)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
anthracene		RQL = 20			
1,3-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 9			
2-Chloronaphthalene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9.5			
Di-n-octyl Phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,4-Dinitrotoluene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,+ Dimirotoruche	Efficient Gross variae	RQL = 10	CG/L	24 Hour Composite	Junuary una Becember
2,6-Dinitrotoluene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,0 Dimirotorache	Efficient Gross variae	RQL = 9.5	CG/L	24 Hour Composite	Junuary una Becember
3,3'-Dichloro-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
benzidine	Efficient Gross variae	RQL = 60	00/2	2 i frodr Composite	Suridary thru Becenieer
4-Bromophenyl phenyl	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
ether		RQL = 9.5	3.5/2	IIour composite	l ma 2 combon
Naphthalene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
- · 		RQL = 8			
Benzidine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 50			

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Malathion	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Demeton	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Hexachlorobenzene	Effluent Gross Value	REPORT RQL = 10	UG/L	24 Hour Composite	January thru December
Hexachlorobutadiene	Effluent Gross Value	REPORT RQL = 10	UG/L	24 Hour Composite	January thru December
Mirex	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
1,3-Dichloropropene	Effluent Gross Value	REPORT RQL = 7	UG/L	Grab	January thru December
1,2,4,5-Tetrachloro- benzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-nitrosodiethyl- amine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-nitrosopyrrolidine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Carbon Tetrachloride	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,2-Dichloroethane	Effluent Gross Value	REPORT RQL = 3	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Benzene	Effluent Gross Value	REPORT RQL = 7	UG/L	Grab	January thru December
Acrolein	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Acrylonitrile	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Chlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 6			
Chlorodibromomethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 6			
Ethylbenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 6			
Methyl Bromide	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 9			
Methyl Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 10			
Trichlorofluoro-	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
methane		RQL = 5			
1,1-Dichloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 23.5			
1,1-Dichloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 6			
1,1,2-Trichloro-	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
ethane		RQL = 6			
1,2-Dichloropropane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 5			
1,2-trans-Dichloro-	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
ethylene		RQL = 4			
2-Chloroethyl	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Vinyl Ether (Mixed)					
Vinyl Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 10			
Trichloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
		RQL = 5			
Methoxychlor	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
N-Nitrosodi- n-butylamine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Chloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Parachloro-m- cresol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Parathion	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,4,5-Trichloro- phenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Delta BHC, Total (ug/l)	Effluent Gross Value	REPORT RQL = 0.02	UG/L	24 Hour Composite	January thru December
Endosulfan Sulfate	Effluent Gross Value	REPORT RQL = 0.08	UG/L	24 Hour Composite	January thru December
Beta Endosulfan	Effluent Gross Value	REPORT ROL = 0.04	UG/L	24 Hour Composite	January thru December
Alpha Endosulfan	Effluent Gross Value	REPORT RQL = 0.02	UG/L	24 Hour Composite	January thru December
Endrin Aldehyde	Effluent Gross Value	REPORT RQL = 0.1	UG/L	24 Hour Composite	January thru December
2,3,7,8-Tetrachloro- dibenzo-p-dioxin	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4,4'-DDT(p,p'-DDT)	Effluent Gross Value	REPORT RQL = 0.06	UG/L	24 Hour Composite	January thru December
4,4'-DDD(p,p'-DDD)	Effluent Gross Value	REPORT ROL = 0.04	UG/L	24 Hour Composite	January thru December
4,4'-DDE(p,p'-DDE)	Effluent Gross Value	REPORT ROL = 0.04	UG/L	24 Hour Composite	January thru December
Aldrin	Effluent Gross Value	REPORT RQL = 0.04	UG/L	24 Hour Composite	January thru December

Limits And Monitoring Requirements

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Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Alpha BHC	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.02			
Beta BHC	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.04			
Gamma BHC (lindane),	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.03			
Chlordane	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.2			
Dieldrin	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.03			
Endosulfans, Total	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
(alpha and beta)					
Endrin	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.04			
Toxaphene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 1			
Heptachlor	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.02			
Heptachlor Epoxide	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.4			
Chlorpyrifos	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2-Chlorophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
2-Nitrophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 18			
2,4-Dichlorophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
2,4-Dimethylphenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 13.5			

Limits And Monitoring Requirements

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - A - 5: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
2,4-Dinitrophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
_		RQL = 40			
2,4,6-Trichloro-	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
phenol		RQL = 20			
4-Chlorophenyl	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
phenyl ether		RQL = 21			
4-Nitrophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 12			
4,6-Dinitro-o-cresol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 60			
Pentachlorophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 30			
Pentachlorobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Guthion	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

Limits And Monitoring Requirements

MONITORED LOCATION: RECEIVING STREAM: STREAM CLASSIFICATION: DISCHARGE CATEGORY(IES):

007A Sanitary North Channel Raritan River SE1(C2) A - Sanitary Wastewater

Location Description

Outfall 007A shall only be used under the Facility Management conditions established at Part IV.E.1.f Effluent monitoring shall be after the last treatment step. Outfall 007A shall discharge treated wastewater to the Raritan Bay, classified as SE1, at Latitude: 40 degrees 29' 34.2" and Longitude: 74 degrees 19' 42.0".

Contributing Waste Types

Sanitary

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform.

Table III - B - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

		-					r			
Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Duration Of	Effluent Gross					REPORT		# OF DAYS	Continuous	Calculated
Discharge	Value	****	****	****	****	Monthly	****			
						Total				
January thru December	QL	***	***]	***	***	***			
Flow, In Conduit or	Effluent Gross	REPORT	REPORT	MGD					Continuous	Metered
Thru Treatment Plant	Value	Monthly	Daily		****	****	****	****		
		Average	Maximum							
January thru December	QL	***	***		***	***	***			
Flow, Total	Effluent Gross	REPORT		MGAL/MON					Continuous	Calculated
	Value	Monthly	****		****	****	****	****		
		Total								
January thru December	QL	***	***		***	***	***			
Enterococci	Effluent Gross					REPORT	REPORT	#/100ML	1/Discharge	Grab
	Value	****	****	****	****	Monthly	Instant			
						Geo Avg	Maximum			
January thru December	QL	***	***]	***	***	***			

Limits And Monitoring Requirements

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Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform.

Table III - B - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1 Initial PHASE Start Date: 07/01/2015 PHASE End Date: 06/30/2016

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Coliform, Fecal	Effluent Gross					200	400	#/100ML	1/Discharge	Grab
General	Value	****	****	****	****	Monthly	Weekly			
						Geo Avg	Geometric			
January thru December	QL	***	***		***	***	***			
Chlorine Produced	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	1/Discharge	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			
Chlorine Produced	Effl. Adjusted	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	1/Discharge	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6		***	0.1	0.1			

Table III - B - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Duration Of Discharge	Effluent Gross Value	****	****	****	****	REPORT Monthly Total	****	# OF DAYS	Continuous	Calculated
January thru December	QL	***	***		***	***	***			
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	MGD	****	****	****	****	Continuous	Metered
January thru December	QL	***	***		***	***	***			

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Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform.

Table III - B - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE: 2 Interim PHASE Start Date: 07/01/2016 PHASE End Date: 06/30/2018

									i	
Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, Total	Effluent Gross	REPORT		MGAL/MON					Continuous	Calculated
	Value	Monthly	****		****	****	*****	****		
		Total								
January thru December	QL	***	***] [***	***	***			
Enterococci	Effluent Gross					35	REPORT	#/100ML	1/Discharge	Grab
	Value	****	****	****	****	Monthly	Instant			
						Geo Avg	Maximum			
January thru December	QL	***	***] [***	***	***			
Chlorine Produced	Effluent Gross	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	1/Discharge	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6] [***	0.1	0.1			
Chlorine Produced	Effl. Adjusted	REPORT	REPORT	KG/DAY		REPORT	REPORT	MG/L	1/Discharge	Grab
Oxidants	Value	Monthly	Daily		****	Monthly	Daily			
		Average	Maximum			Average	Maximum			
January thru December	MDL	55.6	55.6] [***	0.1	0.1			

Table III - B - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final PHASE Start Date: 07/01/2018 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Duration Of Discharge	Effluent Gross Value	****	****	****	****	REPORT Monthly Total	****	# OF DAYS	Continuous	Calculated
January thru December	QL	***	***		***	***	***			

Limits And Monitoring Requirements

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Surface Water DMR Reporting Requirements:
Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Please note, during the "1-Initial" phase, all enterococci samples shall be split samples with fecal coliform.

Table III - B - 3: Surface Water DMR Limits and Monitoring Requirements

PHASE: 3 Final **PHASE Start Date:** 07/01/2018 **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly	REPORT Daily	MGD	****	****	****	****	Continuous	Metered
January thru December	QL	Average ***	Maximum ***	 	***	***	***			
Flow, Total	Effluent Gross Value	REPORT Monthly Total	****	MGAL/MON	****	****	****	****	Continuous	Calculated
January thru December	QL	***	***	1	***	***	***			
Enterococci	Effluent Gross Value	****	****	****	****	35 Monthly Geo Avg	REPORT Instant Maximum	#/100ML	1/Discharge	Grab
January thru December	QL	***	***	1	***	***	***			
Chlorine Produced Oxidants	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	KG/DAY	****	REPORT Monthly Average	REPORT Daily Maximum	MG/L	1/Discharge	Grab
January thru December	MDL	55.6	55.6		***	0.1	0.1			
Chlorine Produced Oxidants	Effl. Adjusted Value	REPORT Monthly Average	REPORT Daily Maximum	KG/DAY	****	REPORT Monthly Average	REPORT Daily Maximum	MG/L	1/Discharge	Grab
January thru December	MDL	55.6	55.6	1	***	0.1	0.1			

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MONITORED LOCATION:
IPPI Influent Pretreatment Req

RECEIVING STREAM:

STREAM CLASSIFICATION:

DISCHARGE CATEGORY(IES):

A - Sanitary Wastewater

Location Description

Influent monitoring shall be before any treatment, other than degritting, and before the addition of any internal wastestreams.

Contributing Waste Types

Sanitary

Surface Water WCR - Annual Reporting Requirements:

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Cyanide, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as CN)		RQL = 40			
Arsenic, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as As)					
Beryllium, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Be)					
Cadmium, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Cd)					
Chromium, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Cr)		RQL = 10			
Copper, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Cu)		RQL = 0.01			
Lead, Total (as Pb)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Thallium, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Tl)					
Nickel, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Ni)		RQL = 10			
Silver, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Ag)		RQL = 2			
Zinc, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Zn)					

Limits And Monitoring Requirements

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Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Antimony, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Sb)		RQL = 20			
Selenium, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Se)		RQL = 10			
Mercury, Total	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(as Hg)		RQL = 1			
Acenaphthylene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Acenaphthene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
_		RQL = 9.5			
Anthracene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Benzo(b)fluoranthene (3,4-benzo)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
Benzo(k)fluoranthene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20		_	
Benzo(a)pyrene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Bis(2-chloroethyl)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
ether		RQL = 10			
Bis(2-chloroethoxy)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
methane		RQL = 26.5			
Bis (2-chloroiso-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
propyl) ether		RQL = 10			
Butyl benzyl	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
phthalate		RQL = 20			
Chrysene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Diethyl phthalate	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			

Limits And Monitoring Requirements

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Dimethyl phthalate	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
1,2-Diphenyl-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
hydrazine					
Fluoranthene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Fluorene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Hexachlorocyclo-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
pentadiene		RQL = 10			
Hexachloroethane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Indeno(1,2,3-cd)-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
pyrene		RQL = 20			
Isophorone	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
N-nitrosodi-n-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
propylamine		RQL = 20			
N-nitrosodiphenyl-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
amine		RQL = 20			
N-nitrosodimethyl-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
amine		RQL = 20		_	
Nitrobenzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10		_	
Phenanthrene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10		1	
Pyrene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
_		RQL = 20		1	
Benzo(ghi)perylene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20		1	

Limits And Monitoring Requirements

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Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Benzo(a)anthracene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
1,2-Dichlorobenzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9			
1,2,4-Trichloro-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
benzene		RQL = 10			
Dibenzo(a,h)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
anthracene		RQL = 20			
1,3-Dichlorobenzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9			
1,4-Dichlorobenzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
2-Chloronaphthalene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9.5			
2,4-Dinitrotoluene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
2,6-Dinitrotoluene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9.5			
3,3'-Dichloro-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
benzidine		RQL = 60			
4-Bromophenyl phenyl	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
ether		RQL = 9.5			
Naphthalene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 8			
Bis(2-ethylhexyl)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
phthalate		RQL = 30			
Di-n-butyl phthalate	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 20			
Benzidine	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 50			

Limits And Monitoring Requirements

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Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Hexachlorobenzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Hexachlorobutadiene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
1,3-Dichloropropene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 7			
Dichlorobromomethane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
Carbon Tetrachloride	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6		1	
1,2-Dichloroethane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 3		_	
Bromoform	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 8		_	_
Chloroform	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 5			
Toluene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6			
Benzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 7			
Acrolein	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 50			
Acrylonitrile	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 50			
Chlorobenzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6			
Chlorodibromomethane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6			
Ethylbenzene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6			

Limits And Monitoring Requirements

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Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Methyl Bromide	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9			
Methyl Chloride	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Methylene Chloride	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6			
Tetrachloroethylene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 9			
1,1-Dichloroethane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6			
1,1-Dichloroethylene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 6			
1,1,1-Trichloro-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
ethane		RQL = 6			
1,1,2-Trichloro-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
ethane		RQL = 6			
1,1,2,2-Tetrachloro-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
ethane		RQL = 10			
1,2-Dichloropropane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 5			
1,2-trans-Dichloro-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
ethylene		RQL = 4			
2-Chloroethyl	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
Vinyl Ether (Mixed)					
Vinyl Chloride	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10			
Trichloroethylene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 5			
Chloroethane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December

Limits And Monitoring Requirements

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Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Parachloro-m- cresol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
Phenols	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
Delta BHC, Total (ug/l)	Raw Sew/influent	REPORT RQL = 0.02	****	24 Hour Composite	January thru December
Endosulfan Sulfate	Raw Sew/influent	REPORT RQL = 0.08	UG/L	24 Hour Composite	January thru December
Beta Endosulfan	Raw Sew/influent	REPORT RQL = 0.04	UG/L	24 Hour Composite	January thru December
Alpha Endosulfan	Raw Sew/influent	REPORT RQL = 0.02	UG/L	24 Hour Composite	January thru December
Endrin Aldehyde	Raw Sew/influent	REPORT RQL = 0.1	UG/L	24 Hour Composite	January thru December
PCB-1016 (Arochlor 1016)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
4,4'-DDT(p,p'-DDT)	Raw Sew/influent	REPORT RQL = 0.04	UG/L	24 Hour Composite	January thru December
4,4'-DDD(p,p'-DDD)	Raw Sew/influent	REPORT RQL = 0.04	UG/L	24 Hour Composite	January thru December
4,4'-DDE(p,p'-DDE)	Raw Sew/influent	REPORT RQL = 0.04	UG/L	24 Hour Composite	January thru December
Aldrin	Raw Sew/influent	REPORT RQL = 0.04	UG/L	24 Hour Composite	January thru December
Alpha BHC	Raw Sew/influent	REPORT RQL = 0.02	UG/L	24 Hour Composite	January thru December
Beta BHC	Raw Sew/influent	REPORT RQL = 0.04	UG/L	24 Hour Composite	January thru December
Gamma BHC (lindane),	Raw Sew/influent	REPORT RQL = 0.03	UG/L	24 Hour Composite	January thru December

Limits And Monitoring Requirements

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Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Chlordane	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.2			
Dieldrin	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.03			
Endrin	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.04			
Toxaphene	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 1			
Heptachlor	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 0.02			+
Heptachlor Epoxide	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
DGD 4004		RQL = 0.4	1107	1	+
PCB-1221	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(Arochlor 1221)	D C (C)	DEDODE	IIO/I	24.11 G	1 1 5 1
PCB-1232 (Arochlor 1232)	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1242	Raw Sew/influent	REPORT	UG/L	24 Hour Commonite	I any any they Dagamhan
(Arochlor 1242)	Raw Sew/Illituent	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1248	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(Arochlor 1248)	Kaw Sew/Illituent	KEFOKI	OG/L	24 Hour Composite	January und December
PCB-1254	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(Arochlor 1254)	Raw Sew/Illiacite	KLI OKI	CG/E	24 Hour Composite	Junuary una Becember
PCB-1260	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
(Arochlor 1260)		TIEST OTTE	0.072	2. Hour composite	
2-Chlorophenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
r		RQL = 20		1	
2-Nitrophenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
ı		RQL = 18		1	
2,4-Dichlorophenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 10		1	

Limits And Monitoring Requirements

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP). Pursuant to N.J.A.C. 7:14A-19.3(c) 7i, the influent sample for priority pollutant scans shall be collected to coincide with the effluent and sludge monitoring for priority pollutants.

Table III - C - 1: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 07/01/2015 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
2,4-Dimethylphenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 13.5			
2,4-Dinitrophenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 40			
2,4,6-Trichloro-	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
phenol		RQL = 20			
4-Chlorophenyl	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
phenyl ether		RQL = 21			
4-Nitrophenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 12		_	·
4,6-Dinitro-o-cresol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 60		_	
Phenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
Single Compound					
Pentachlorophenol	Raw Sew/influent	REPORT	UG/L	24 Hour Composite	January thru December
		RQL = 30			

Limits And Monitoring Requirements

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Footnotes

- 1. These notes are specific to this permit
 - a. The permit conditions in the CSO section apply only to the combined sewer system and related discharges
- 2. CSO related resources are listed below with a link to the current webpage
 - a. NJDEP's CSO main website and related links can be found at http://www.nj.gov/dep/dwq/cso.htm
 - b. EPA's Combined Sewer Overflows Principal Guidance Documents can be found at http://water.epa.gov/polwaste/npdes/cso/Guidance-Documents.cfm
 - c. The Nine Minimum Control requirements from the National CSO Policy along with EPA's guidance document can be found at N.J.A.C. 7:14A-11.12-Appendix C and http://www.epa.gov/npdes/pubs/owm0030.pdf
 - d. The Nine elements of a Long Term Control Plan from the National CSO Policy along with EPA's guidance document can be found at N.J.A.C. 7:14A-11.12-Appendix C and http://water.epa.gov/polwaste/npdes/cso/upload/owm0272.pdf
 - e. EPA's Post Construction Compliance Monitoring Guidance document can be found at http://www.epa.gov/npdes/pubs/final_cso_pccm_guidance.pdf
 - f. EPA's Guidance: Coordinating Combined Sewer Overflow (CSO) Long-Term Planning with Water Quality Standards Reviews (PDF)
 - g. EPA's Capacity, management, operation and maintenance (CMOM) guidance document can be found at http://www.epa.gov/npdes/pubs/cmom 5.pdf
 - h. Dry-Weather Deposition and Flushing for Combined Sewer Overflow Pollution Control: http://nepis.epa.gov/Adobe/PDF/30000821.PDF
 - i. Combined sewer overflow control (manual): http://nepis.epa.gov/Adobe/PDF/30004MAO.pdf
 - j. EPA's Storm Water and Combined Sewer Overflows Publications can be found at http://water.epa.gov/polwaste/wastewater/StormwaterPubs.cfm

B. Definitions

1. These definitions are specific only to this permit

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- a. "Dry weather overflow (DWO)" means a combined sewer overflow that cannot be attributed to a precipitation event, including snow melt, within the hydraulically connected system. DWOs include the following flows: domestic sewage, dewatering activities, commercial and industrial wastewaters, ground water and tidal infiltration upstream of the regulator, and any other non-precipitation event related flows downstream of the regulator to the outfall pipe.
 - Groundwater infiltration and tidal infiltration originating downstream of the regulator are allowable sources of discharges from a CSO during dry weather. On a case-by-case basis, the Department reserves the right to allow temporary use of the CSO outfall structures for other types of discharges to address extraordinary circumstances. Such use must be specifically approved by the Department

.

- b. "Green Infrastructure" means methods of stormwater management that reduce wet weather/stormwater volume, flow, or changes the characteristics of the flow into combined or separate sanitary or storm sewers, or surface waters, by allowing the stormwater to infiltrate, to be treated by vegetation or by soils; or to be stored for reuse. Green infrastructure includes, but is not limited to, pervious paving, bioretention basins, vegetated swales, and cisterns
- c. "Hydraulically connected system" means the entire collection system that conveys flows to one Sewage Treatment Plant (STP). On a case-by-case basis, the permittee, in consultation with the Department, may segment a larger hydraulically connected system into a series of smaller inter-connected systems, based upon the specific nature of the sewer system layout, pump stations, gradients, locations of CSOs and other physical features which support such a sub area. A hydraulically connected system could include multiple municipalities, comprised of both combined and separate sewers

C. NINE MINIMUM CONTROL REQUIREMENTS

- 1. Proper operation and regular maintenance programs for the sewer system and the CSOs
- 2. Maximum use of the collection system for storage
- 3. Review and modification of pretreatment requirements to assure CSO impacts are minimized
- 4. Maximization of flow to the POTW for treatment
- 5. Prohibition of CSOs during dry weather
- 6. Control of solid and floatable materials in CSOs
- 7. Pollution prevention
- 8. Public notification to ensure that the public receives adequate notification of CSO occurrences and CSO impacts
- 9. Monitoring to effectively characterize CSO impacts and the efficacy of CSO controls

D. NINE ELEMENTS OF THE LONG TERM CONTROL PLAN

- 1. Characterization, Monitoring, and Modeling of the Combined Sewer Systems
- 2. Public Participation

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- 3. Consideration of Sensitive Areas
- 4. Evaluation of Alternatives
- 5. Cost/Performance Considerations
- 6. Operational Plan
- 7. Maximizing Treatment at the Existing POTW Treatment Plant
- 8. Implementation Schedule
- 9. Compliance Monitoring Program

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Sanitary Wastewater

A. MONITORING REQUIREMENTS

1. Standard Monitoring Requirements

- a. Each analysis required by this permit shall be performed by a New Jersey Certified Laboratory that is certified to perform that analysis.
- b. The Permittee shall perform all water/wastewater analyses in accordance with the analytical test procedures specified in 40 CFR 136, unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.
- c. The permittee shall utilize analytical methods that will ensure compliance with the Quantification Levels (QLs) listed in PART III. QLs include, but are not limited to, Recommended Quantification Levels (RQLs) and Method Detection Levels (MDLs). If the permittee and/or contract laboratory determines that the QLs achieved for any pollutant(s) generally will not be as sensitive as the QLs specified in PART III, the permittee must submit a justification of such to the Bureau of Surface Water Permitting. For limited parameters with no QL specified, the sample analysis shall use a detection level at least as sensitive as the effluent limit.
- d. All sampling shall be conducted in accordance with the Department's Field Sampling Procedures Manual, or an alternate method approved by the Department in writing.
- e. All monitoring shall be conducted as specified in Part III.
- f. All sample frequencies expressed in Part III are minimum requirements. Any additional samples taken consistent with the monitoring and reporting requirements contained herein shall be reported on the Monitoring Report Forms.
- g. Monitoring for Wastewater Characterization Report parameters shall be conducted concurrently with the Whole Effluent Toxicity (WET) monitoring, when feasible.
- h. Any influent and effluent sampling for toxic pollutant analyses shall be collected concurrently.

2. Rainfall Monitoring Requirements

a. The permittee shall monitor and report rainfall data and data regarding the dates and times outfall 007A was utilized. The rainfall data shall include the dates it rained and the amount of rain (within the vicinity of the treatment facility). The outfall data shall include the date and times outfall 007A was opened and closed. This data shall be included as an attachment to the DMRs for outfall 007A.

B. RECORDKEEPING

1. Standard Recordkeeping Requirements

a. The permittee shall retain records of all monitoring information, including 1) all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation (if applicable), 2) copies of all reports required by this NJPDES permit, 3) all data used to complete the application for a NJPDES permit, and 4) monitoring information required by the permit related to the permittee's residual use and/or disposal practices, for a period of at least 5 years, or longer as required by N.J.A.C. 7:14A-20, from the date of the sample, measurement, report, application or record.

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Sanitary Wastewater

b. Records of monitoring information shall include 1) the date, locations, and time of sampling or measurements, 2) the individual(s) who performed the sampling or measurements, 3) the date(s) the analyses were performed, 4) the individual(s) who performed the analyses, 5) the analytical techniques or methods used, and 6) the results of such analyses.

C. REPORTING

1. Standard Reporting Requirements

- a. The permittee shall submit all required monitoring results to the Department on the forms provided to them. The Monitoring Report Forms (MRFs) may be provided to the permittee in either a paper format or in an electronic file format. Unless otherwise noted, all requirements below pertain to both paper and electronic formats.
- b. Any MRFs in paper format shall be submitted to the following addresses:
 - i. NJDEP

Mail Code - 401-02B Division of Water Quality Permit Administration Section P.O. Box 420 Trenton, New Jersey 08625-0420.

ii. (if requested by the Water Compliance and Enforcement Bureau)

Mail Code - 44-03

NJDEP: Central Bureau of Water Compliance and Enforcement

4 Station Plaza - P.O. Box 420

Trenton, New Jersey 08625-0420

- c. Any electronic data submission shall be in accordance with the guidelines and provisions outlined in the Department's Electronic Data Interchange (EDI) agreement with the permittee. Paper copies must be available for on-site inspection by DEP personnel or provided to the DEP upon written request.
- d. All monitoring report forms shall be certified by the highest ranking official having day-to-day managerial and operational responsibilities for the discharging facility.
- e. The highest ranking official may delegate responsibility to certify the monitoring report forms in his or her absence. Authorizations for other individuals to sign shall be made in accordance with N.J.A.C. 7:14A-4.9(b).
- f. Monitoring results shall be submitted in accordance with the current Discharge Monitoring Report Manual and any updates thereof.
- g. If monitoring for a parameter is not required in a monitoring period, the permittee must report "CODE=N" for that parameter.
- h. If no discharge occurs from outfall 007A, the permittee is required to report "NODI" on the surface water DMR for outfall 007A.

2. Special Reporting Requirements for Mercury

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- a. If on the day the 24-hour average composite sample for compliance is collected, the 24-hour daily average flow value is less than or equal to the flow value used to calculate the loading limitation (147 MGD), then the permittee is required to report the actual calculated loading value on the DMR under Option 1 and "CODE=N" under Option 2.
- b. If on the day the 24-hour average composite sample for compliance is collected, the 24-hour daily average flow is greater than the flow value used to calculate the loading limitation (147 MGD), then the permittee is required to report the measured concentration value on the DMR under Option 2 and "CODE=N" under Option 1.

3. Special Reporting Requirements for Chlorine Produced Oxidants

- a. Given the MCUA's unique treatment system and layout with respect to disinfection, the Department has established this section to regulate Chlorine Produced Oxidants (CPO).
- b. During the Final period, CPO limitations are required as detailed below and in Part III.
 - i. Under normal discharge conditions, when MCUA is not discharging from outfall 007A, CPO loading and concentration shall be limited through the DMR for outfall 001A under Option1.
 - ii. Under other discharge conditions, when MCUA is discharging from Outfall 007A, CPO concentration shall be limited through the DMR for outfall 001A under Option 2. Additionally, CPO concentration shall be limited through the DMR for Outfall 007A, while CPO loading shall be limited through the DMR for outfall 007A as an "Effluent Adjusted Value".
 - iii. The CPO Effluent Adjusted Value concentration shall be calculated as follows:.
 - iv. CPO Effluent Adjusted Value concentration = CPO 001A concentration * (001A Flow/(001A Flow + 007A Flow)) + CPO 007A concentration * (007A Flow/(007A Flow + 001A Flow)).
 - v. The CPO Effluent Adjusted Value loading shall be calculated as follows:.
 - vi. CPO Effluent Adjusted Value loading = CPO Effluent Adjusted Value concentration * 3.785 L/gal * (001A Flow + 007A Flow).

D. SUBMITTALS

1. Standard Submittal Requirements

a. The permittee shall amend the Operation & Maintenance Manual whenever there is a change in the treatment works design, construction, operations or maintenance which substantially changes the treatment works operations and maintenance procedures.

2. Compliance Schedule Progress Reports

- a. In accordance with N.J.A.C. 7:14A-6.4(a), a schedule of compliance has been included for enterococci, CPO and arsenic, including interim deadlines for annual progress reports that outline the progress towards compliance with the conditions of the permit.
 - i. Submit a Compliance Schedule Progress Report: within 12 months from the effective date of the permit (EDP). (Activity #: DSW100001 Effective: 7/1/2015)
 - ii. Submit a Compliance Schedule Progress Report: within 24 months from the effective date of the permit (EDP). (Activity #: DSW100001 Effective: 7/1/2015)

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- b. The compliance schedule progress report(s) shall be submitted to the following Departmental entities:
 - NJDEP: Division of Water Quality Mail Code - 401-02B Bureau of Surface Water Permitting P.O. Box 420 Trenton, New Jersey 08625-0420
 - Mail Code 44-03
 NJDEP: Central Bureau of Water Compliance and Enforcement
 4 Station Plaza P.O. Box 420
 Trenton, New Jersey 08625-0420

3. Polychlorinated Biphenyls (PCB) Monitoring

- a. The permittee shall perform sampling for the 209 PCB congeners within 24 months after the effective date of the permit.
 - The permittee shall perform three dry weather and three wet weather samples on the facility's main outfall.
 - ii. Dry weather sampling shall be conducted when less than 0.1 inches of rainfall has occurred within the previous 72 hours.
 - iii. Wet weather sampling shall be performed within 72 hours after the onset of a precipitation event in which at least 0.1 inches of rainfall has occurred. Wet weather conditions are defined as following the onset of a precipitation event of 0.1 inches or greater and an increase in wastewater flow, provided that no rainfall (defined as less than 0.1 inches) has occured within the previous 72 hours. Sampling should start no sooner than two hours prior to the start of the rising hydrograph or no later than 30 minutes after the start of the rising hydrograph for the discharge.
 - iv. All samples shall be collected at least 30 days after the previous sampling event. No more than two samples (one wet and one dry) shall be collected in each quarter of the year or the same quarter of the following year.
 - v. All samples shall be performed during periods which are representative of normal facility operations.
 - vi. All sampling shall be performed using the most recent version of USEPA Method 1668, Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS, as found at EPA 40 CFR Part 136.
 - vii. Dry weather samples shall be 24-hour time-weighted composite samples at a frequency of not greater than one aliquot every hour for a nominal sample volume of 2 liters for both the sample and the field replicate.
 - viii. Wet weather samples shall consist of a two liter grab sample collected into a laboratory supplied bottle within 30 minutes of the start of the discharge, sealed and stored at between 0-4 degrees C for shipment. A replicate sample will be collected and treated in the same manner as the sample.
 - ix. Submit the Final PCB Sampling Report: within 30 months from the effective date of the permit (EDP) The final report shall include all data, including precipitation data. (Activity #: DSW100001 Effective: 7/1/2015)

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- x. The Final Report shall be submitted in electronic format on a compact disc in EXCEL format and shall include a summary report.
- xi. Final Reports shall be submitted to: Attn:

Melisse Carasia Auriti

Bureau of Surface Water Permitting

New Jersey Department of Environmental Protection

Mailcode: 401-02B

401 East State Street.

PO Box 420, Trenton, NJ 08625-0420

- b. Frequency Reduction, Suspension, Elimination of Monitoring
 - i. If sampling demonstrates non-detectable levels in the effluent, the permittee may request a frequency reduction of the monitoring.
 - ii. If the Department determines that a PMP will be necessary for its facility, the permittee may contact the Department about the possibility of eliminating the sampling described above.
- c. PCB Pollutant Minimization Plan (PMP) Requirement
 - i. If, based on the review of the Final Report, the Department determines that a PMP is required, the permittee shall prepare and submit a PMP to the Department by the date specified in the Department's determination letter.
 - ii. The permittee shall implement the PMP within 30 days after written notification by the Department that the PMP is complete.
 - iii. The PMP shall be developed to achieve maximum practical reduction in accordance with the PMP Technical Manual.
- d. PCB PMP Annual Report Requirement
 - i. The permittee shall submit an annual report in accordance with the Annual Report Guidance Document every 12 months from the implementation of the PMP.
 - ii. Any revisions to the PMP as a result of the ongoing work shall be reported in the annual report.
 - iii. The annual report shall contain, at a minimum, a detailed discussion of the specific progress and actions taken by the permittee during the previous twelve month period that addresses PCB loadings and implementation of the PMP.

E. FACILITY MANAGEMENT

1. Discharge Requirements

- a. The permittee shall discharge at the location(s) specified in PART III of this permit.
- b. The permittee shall not discharge foam or cause foaming of the receiving water that 1) forms objectionable deposits on the receiving water, 2) forms floating masses producing a nuisance, or 3) interferes with a designated use of the waterbody.
- c. The permittee's discharge shall not produce objectionable color or odor in the receiving stream.
- d. The discharge shall not exhibit a visible sheen.

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- e. When an average of three (3) consecutive rolling monthly average values of the committed flow (actual flow and approved allocated flow) reaches or exceeds 80% of 147 MGD (the permitted capacity of the facility), the permittee shall:
 - i. Develop a Capacity Assurance Program (CAP) in accordance with N.J.A.C. 7:14A-22.16.
 - ii. For more information concerning the CAP, please contact the Bureau of Construction and Connection Permits at (609) 633-1169.
 - iii. Contact the Division of Watershed Management to discuss whether an amendment to the Water Quality Management Plan (WQMP) or Wastewater Management Plan (WMP) will be necessary.
- f. Outfall 007A is permitted to be used: 1) when Outfall 001A has reached hydraulic capacity, 2) intermittently under emergency conditions or 3) when maintenance of Outfall 001A is required. Any maintenance use of Outfall 007A that lasts more than 48 hours shall be approved by the Department in writing prior to commencement of use.

2. Applicability of Discharge Limitations and Effective Dates

- a. Surface Water Discharge Monitoring Report (DMR) Form Requirements
 - i. This permit includes multiple phases for DSN 001A and 007A. The "1-Initial" phase limitation and monitoring conditions are effective from the effective date of the permit (EDP) until EDP + 12 months. "2-Interim" phase limitation and monitoring conditions become effective from EDP + 12 months to EDP + 36 months. "3-Final" phase limitations and monitoring become effective on EDP + 36 months.
- b. Wastewater Characterization Report (WCR) Form Requirements
 - i. The final effluent monitoring conditions contained in PART III for DSN 001A apply for the full term of this permit action.

3. Operation, Maintenance and Emergency conditions

- a. The permittee shall operate and maintain treatment works and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit as specified in the Operation & Maintenance Manual.
- b. The permittee shall develop emergency procedures to ensure effective operation of the treatment works under emergency conditions in accordance with N.J.A.C. 7:14A-6.12(d).

4. Toxicity Testing Requirements - Acute Whole Effluent Toxicity

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Acute toxicity tests shall be conducted using the test species and method identified in Part III of this permit.
- c. Any test that does not meet the specifications of N.J.A.C. 7:18, laboratory certification regulations, must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.

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- d. The permittee shall collect and analyze the concentration of ammonia-N in the effluent on the day a sample is collected for WET testing. This result is to be reported on the Biomonitoring Report Form.
- e. The permittee shall resubmit an Acute Methodology Questionnaire within 60 days of any change in laboratory.
- f. Submit an acute whole effluent toxicity test report: within twenty-five days after the end of every quarterly monitoring period beginning from the effective date of the permit (EDP). The permittee shall submit toxicity test results on appropriate forms. (Activity #: DSW100001 Effective: 7/1/2015)
- g. Test reports shall be submitted to:
 - i. New Jersey Department of Environmental Protection 401-02B
 Division of Water Quality
 Bureau of Surface Water Permitting 401 East State Street
 P.O. Box 420
 Trenton, New Jersey 08625-0420

5. Toxicity Reduction Implementation Requirements (TRIR)

- a. The permittee shall initiate a tiered toxicity investigation if two out of six consecutive WET tests demonstrate that the effluent does not comply or will not comply with the toxicity limit or action level specified in Part III of this permit.
 - i. If the exceedence of the toxicity limit or action level is directly caused by a documented facility upset, or other unusual event which has been identified and appropriately remedied by the permittee, the toxicity test data collected during the event may be eliminated when determining the need for initiating a TRIR upon written Department approval.
- b. The permittee shall begin toxicity characterization within 30 days of the end of the monitoring period when the second toxicity test exceeds the toxicity limits or action levels in Part III. The monitoring frequency for toxicity testing shall be increased to monthly. Up to 12 additional tests may be required.
 - The permittee may return to the toxicity testing frequency specified in Part III if four consecutive toxicity tests conducted during the Toxicity Characterization do not exceed the toxicity limit or action level.
 - ii. If two out of any six consecutive, acceptable tests again exceed the toxicity limit or action level in Part III, the permittee shall repeat the Toxicity Reduction Implementation Requirements.
- c. The permittee shall initiate a preliminary toxicity identification (PTI) upon the third exceedence of the toxicity limit or action level specified in Part III during toxicity characterization.
 - i. The permittee may return to the monitoring frequency specified in PART III while conducting the PTI. If more frequent WET testing is performed during the PTI, the permittee shall submit all biomonitoring reports to the DEP and report the results for the most sensitive species on the DMR.

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- ii. As appropriate, the PTI shall include:
 - (1) treatment plant performance evaluation,
 - (2) pretreatment program information,
 - (3) evaluation of ammonia and chlorine produced oxidants levels and their effect on the toxicity of the discharge,
 - (4) evaluation of chemical use and processes at the facility, and
 - (5) an evaluation of incidental facility procedures such as floor washing, and chemical spill disposal which may contribute to effluent toxicity.
- iii. If the permittee demonstrates that the cause of toxicity is the chlorine added for disinfection or the ammonia concentration in the effluent and the chlorine and/or ammonia concentrations are below the established water quality based effluent limitation for chlorine and/or ammonia, the permittee shall identify the procedures to be used in future toxicity tests to account for chlorine and/or ammonia toxicity in their preliminary toxicity identification report.
- iv. The permittee shall submit a Preliminary Toxicity Identification Notification within 15 months of triggering TRIR. This notification shall include a determination that the permittee intends to demonstrate compliance OR plans to initiate a CTI.
- d. The permittee must demonstrate compliance with the WET limitation or action level in four consecutive WET tests to satisfy the requirements of the Toxicity Reduction Investigation Requirements. After successful completion, the permittee may return to the WET monitoring frequency specified in PART III.
- e. The permittee shall initiate a Comprehensive Toxicity Investigation (CTI) if the PTI does not identify the cause of toxicity and a demonstration of consistent compliance with the toxicity limit or action level in Part III can not be made.
 - i. The permittee shall develop a project study plan identifying the party or parties responsible for conducting the comprehensive evaluation, establish a schedule for completing the study, and a description of the technical approach to be utilized.
 - ii. If the permittee determines that the PTI has failed to demonstrate consistent compliance with the toxicity limit or action level in Part III, a Comprehensive Toxicity Investigation Workplan must be prepared and submitted within 90 days.
 - iii. The permittee shall summarize the data collected and the actions taken in CTI Quarterly Reports. The reports shall be submitted within 30 calendar days after the end of each quarter.
 - iv. The permittee shall submit a Final CTI Report 90 calendar days after the last quarterly report. The final CTI report shall include the corrective actions identified to reduce toxicity and a schedule for implementing these corrective actions.
- f. Upon receipt of written approval from the Department of the corrective action schedule, the permittee shall implement those corrective actions consistent with that schedule.
 - The permittee shall satisfy the requirements of the Toxicity Reduction Implementation Requirements and return to the original toxicity monitoring frequency after corrective actions are implemented and the permittee demonstrates consistent compliance with the toxicity limit or action level in Part III in four consecutive toxicity tests.
 - ii. If the implemented corrective measures do not result in consistent compliance with the toxicity limit or action level in Part III, the permittee shall submit a plan for resuming the CTI.

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6. Introduction to RWBR Requirements

- a. The following RWBR sections contain the conditions for the permittee to beneficially reuse treated effluent or Reclaimed Water for Beneficial Reuse (RWBR), provided the effluent is in compliance with the criteria specified for the particular use specified below.
- b. There are two levels of RWBR uses. Public Access and Restricted Access.

7. Inactive RWBR Requirements

a. The following RWBR sections are included in this permit for various reuse applications. These sections are inactive and not effective unless the status column in Appendix A states the reuse activity is approved. Any specific RWBR type not approved in the Appendix, may be approved at a later date by a minor modification permit action once the appropriate submittal requirements have been received and approved by the Department.

8. RWBR Requirements for Public Access

- a. The Public Access reuse types authorized by this permit are those approved in Appendix A. Other Public Access reuse types may be added by minor modification of this permit.
- b. The hydraulic loading rate for land application of RWBR shall not exceed 2 inches per week.
- c. Any water diverted for RWBR shall be monitored and comply with the high level treatment requirements listed below and the operational requirements in the approved Operations Protocol. If any of these requirements are not achieved, the effluent shall not be diverted for RWBR.
 - i. Total Suspended Solids (TSS): Instantaneous maximum of 5.0 mg/L prior to disinfection.
 - ii. Nitrogen, Total (NO3 + NH3): Daily maximum of 10.0 mg/L. This requirement only applies when RWBR is land applied.
 - iii. Fecal Coliform: 7-day median maximum of 2.2 colonies per 100 mL and an instantaneous maximum of 14 colonies per 100 mL.
 - iv. Chlorine Produced Oxidants (CPO): If the permittee disinfects utilizing chlorine, an instantaneous minimum of 1.0 mg/L after fifteen minutes contact time at peak hourly flow must be met.
- d. Monitoring of the diverted public access RWBR shall be conducted in the following manner:
 - i. Sampling for TSS shall be immediately prior to disinfection. Monitoring for TSS shall be a grab sample once per week.
 - ii. Sampling for Turbidity in systems shall be sampled immediately prior to disinfection. The permittee shall establish a correlation between Turbidity and TSS in their effluent as detailed in the Reuse Technical Manual. A statistically significant correlation between Turbidity and TSS shall be established prior to commencement of the RWBR program and shall be incorporated into the Operations Protocol and updated annually. The initial correlation should be done as part of a daily monitoring program for at least 30 days. To ensure continuous compliance with the 5.0 mg/L TSS level, Turbidity must be monitored continuously and achieve the level established in the Operations Protocol.
 - iii. For chlorine disinfection, monitoring for CPO shall be continuous and shall be monitored after the appropriate contact time is achieved.

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- iv. Monitoring for Fecal Coliform shall be a grab sample, taken in accordance with Part III, at least a minimum of once per week taken immediately after disinfection. Fecal coliform shall be monitored immediately after disinfection.
- v. Monitoring for Total Nitrogen (NO3 + NH3) shall be a composite sample, taken in accordance with Part III, at least once per week taken prior to RWBR diversion. Total Nitrogen (NO3 + NH3) shall be monitored after the appropriate disinfection treatment is achieved.
- e. All monitoring results of the RWBR shall be reported each month on Wastewater Characterization Reports (WCR). Unless noted otherwise, the highest of all measured values for diverted RWBR shall be reported.
 - i. If chlorine is used for disinfection, the lowest sampling result obtained during the reporting month shall be reported for CPO.

9. RWBR Requirements for Restricted Access--Land Application and Non Edible Crops

- a. The Restricted Access--Land Application and Non Edible Crops reuse types authorized by this permit are those approved in Appendix A. Other Restricted Access--Land Application and Non Edible Crops reuse types may be added by minor modification of this permit.
- b. The hydraulic loading rate for land application of RWBR shall not exceed 2 inches per week.
- c. Any water diverted for RWBR shall be monitored and comply with the high level treatment requirements listed below and the operational requirements in the approved Operations Protocol. If any of these requirements are not achieved, the effluent shall not be diverted for RWBR.
- d. Nitrogen, Total (NO3 + NH3): Daily maximum of 10 mg/L. Frequency of sampling for Total Nitrogen shall be in accordance with Part III of this permit. The sample shall be collected as a composite sample taken prior to diversion for RWBR. Nitrogen, Total (NO3 + NH3) shall be monitored after the appropriate disinfection treatment time is achieved. This requirement only applies when RWBR is land applied, however, this requirement does not apply to spray irrigation within a fenced perimeter or otherwise restricted area.
- e. Fecal Coliform: 200 colonies per 100 ml monthly average Geometric Mean, 400 colonies per 100 ml maximum in any one sample. Frequency of sampling for Fecal Coliform shall be in accordance with Part III of this permit. The sample shall be collected as a grab sample taken immediately after disinfection.
- f. Chlorine Produced Oxidants (CPO): For chlorine disinfection, instantaneous minimum of 1.0 mg/L after fifteen minutes contact time at peak hourly flow. Frequency of sampling for CPO shall be in accordance with Part III of this permit. The sample shall be collected as a grab sample taken immediately after disinfection. The value reported for CPO shall be the minimum sampling result obtained during the reporting month for diverted RWBR. Chlorine Produced Oxidants (CPO) shall be monitored after the appropriate contact time is achieved.
- g. All monitoring results of the RWBR shall be reported each month on Wastewater Characterization Reports (WCR). Unless noted otherwise, the highest of all measured values for diverted RWBR shall be reported.

10. RWBR Requirements for Restricted Access--Construction and Maintenance Operations

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- a. The Restricted Access--Construction and Maintenance Operations reuse types authorized by this permit are those approved in Appendix A. Other Restricted Access--Construction and Maintenance Operations reuse types may be added by minor modification of this permit.
- b. Fecal Coliform: 200 colonies per 100 ml monthly average Geometric Mean, 400 colonies per 100 ml maximum in any one sample. Frequency of sampling for Fecal Coliform shall be in accordance with Part III of this permit. Fecal coliform shall be monitored immediately after disinfection. This requirement does not apply to sanitary sewer jetting.

11. RWBR Requirements for Restricted Access--Industrial Systems

a. The Restricted Access--Industrial Systems reuse types authorized by this permit are those approved in Appendix A. Other Restricted Access--Industrial Systems reuse types may be added by minor modification of this permit.

12. RWBR Submittal Requirements

- a. For all types of RWBR, with the exception of sanitary sewer jetting and STP washdown water, the permittee shall submit and receive approval of an Operations Protocol or modify the existing Operations Protocol as detailed in the most recent version of the Department's "Technical Manual for Reclaimed Water for Beneficial Reuse" (Reuse Technical Manual) prior to the commencement of any RWBR activity. A copy of the approved Operations Protocol shall be maintained onsite. Specific requirements for the Operations Protocol are identified in the Reuse Technical Manual.
- b. The permittee shall submit a copy of the Reuse Supplier and User Agreement with each request for authorization to distribute RWBR in which the user is a different entity than the supplier. Specific requirements for the Reuse Supplier and User Agreement are identified in the Reuse Technical Manual.
- c. For Public Access RWBR on Edible Crops, the permittee shall submit an annual inventory of edible crop irrigation with the Beneficial Reuse Annual Report. Specific requirements for the annual inventory are identified in the Reuse Technical Manual.
- d. Submit a Beneficial Reuse Annual Report: by February 1 of each year beginning from the effective date of the permit (EDP). The permittee shall compile the total volume of RWBR distributed to each type of authorized RWBR activity for the previous calendar year. Specific requirements for the Annual Reuse Report are identified in the Reuse Technical Manual. (Activity #: DSW100001 -Effective: 7/1/2015)
- e. The permittee shall submit and receive approval of an Engineering Report in support of RWBR authorization requests for new or expanded RWBR projects as detailed in the most recent version of the Department's "Technical Manual for Reclaimed Water for Beneficial Reuse" (Reuse Technical Manual) prior to the commencement of this/these type/s of RWBR activity. A copy of the approved Engineering Report shall be maintained onsite. Specific requirements for the Engineering Report are identified in the Reuse Technical Manual.
- f. All submittals shall be mailed or delivered to: New Jersey Department of Environmental Protection, Mail Code-401-02B, Division of Water Quality, Bureau of Surface Water Permitting, P.O. Box 420, Trenton, New Jersey 08625.

13. RWBR Operational Requirements

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- a. Effluent that does not meet the requirements for RWBR established in Part III, Part IV and the operational requirements specified in the facility's approved Operations Protocol shall not be diverted for RWBR.
- b. The land application of RWBR shall not produce surface runoff or ponding.
- All setback distances shall be consistent with the distances outlined in the Reuse Technical Manual.
- d. Land application sites shall not be frozen or saturated when applying RWBR.
- e. A daily log noting the volume of RWBR distributed to each approved application site shall be maintained on-site by the permittee and made available to the Department upon request. The volume of RWBR to be distributed shall be determined through the use of a totalizing flow meter, or other means of accurate flow measurement.
- f. Any vehicle used to transport and/or distribute RWBR shall be appropriately marked. The vehicle shall not be used to transport water or other fluid that does not meet all limitations and requirements as specified in this permit for water diverted for RWBR, unless the tank has been emptied and adequately cleaned prior to the addition of the RWBR.
- g. The permittee shall post Access Control and Advisory Signs in accordance with the requirements of the Reuse Technical Manual.
- h. There shall be no cross-connections to potable water systems.
- All RWBR piping, pipelines, valves, and outlets shall be appropriately color coded, tagged or labeled to warn the public and employees that the water is not intended for drinking. Worker contact with RWBR shall be minimized.
- j. The issuance of this permit for the use of RWBR shall not be considered as a waiver of any applicable federal, state or local rule, regulation or ordinance.

F. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. General Requirements

- a. The Permittee has developed an industrial pretreatment program pursuant to the General Pretreatment Regulations 40 CFR Part 403 and N.J.A.C. 7:14A-1 et seq. The Permittee shall implement and enforce its approved pretreatment program to prevent the introduction of pollutants into its system which would:
 - i. interfere with attainment of the effluent limitations contained in the permittee's NJPDES permit;
 - ii. pass through the treatment works and impair the water quality of the receiving stream; or
 - iii. affect sludge quality so as to interfere with the use or management of the municipal sludge.
- b. The Permittee shall comply with the public participation and notification requirements, including but not limited to, those specified in N.J.A.C. 7:14A-19.10, and 40 CFR Part 25.
- c. The Permittee shall secure and maintain sufficient resources and qualified personnel to carry out the program implementation procedures described in this permit.

2. Identify and Locate Industrial Users

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- a. The Permittee shall update its inventory of indirect users at a frequency and diligence adequate to ensure proper identification of indirect users subject to pretreatment standards, appropriate characterization of the nature of their discharges, and correct designation of indirect users as categorical, significant/major, or other regulated. At a minimum, this inventory shall be updated annually and shall be included in the Pretreatment Program 40 CFR Part 403 Annual Report.
- b. The Permittee shall notify an indirect user of pretreatment standards and requirements within thirty (30) days of the determination of the indirect user being subject to regulation under the pretreatment program.

3. Program Modifications

- a. The Permittee shall notify the Bureau of Pretreatment and Residuals (BPR) of all substantial industrial pretreatment program (IPP) modifications, as defined under 40 CFR 403.18(b), and comply with the program modification requirements under N.J.A.C. 7:14A-19.9. The Permittee must await formal approval from the BPR before implementing substantial program modifications.
- b. For non-substantial program modifications, the Permittee shall provide to the BPR the information required under N.J.A.C. 7:14A-19.9(b). The Permittee, as required by 40 CFR 403.18(d)(1), must submit this information to the BPR at least 45 days prior to implementation. Modifications that are not considered substantial are deemed approved unless the Department notifies the Permittee within 45 days that the modifications are not approved.

4. Develop Local Limits

- a. The Permittee has developed and shall enforce local limits as required by N.J.A.C. 7:14A-19.7.
- b. The Permittee shall submit a written technical evaluation of the need to revise local limits as required under N.J.A.C. 7:14A-19.7(f).
- c. The written technical evalulation required in b. above shall be submitted: within 6 months from the effective date of the permit (EDP). (Activity #: DSW100001 Effective: 7/1/2015)

5. Issue IPP Permits

- a. The Permittee must issue an individual IPP Permit to those facilities which are classified as significant industrial users (SIUs) as defined in the MCUA rules and regulations.
- b. These individual IPP Permits must contain the minimum requirements as specified under N.J.A.C. 7:14A-19.8(b).
- c. The Permittee shall issue a draft IPP Permit to a newly identified (i.e. currently discharging) SIUs within 180 days of identifying that IU.
 - i. New SIUs shall receive an IPP Permit prior to commencement of discharge.
 - ii. The Permittee shall issue or reissue the IPP Permits, in absence of litigation and/or enforcement action(s) initiated by the Permittee, within one hundred and eighty (180) days of the expiration date of the IPP Permit previously issued to an existing industrial user.

6. Perform Compliance Monitoring and Inspections

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- a. The Permittee shall randomly inspect indirect users and randomly sample and analyze indirect user effluents at a frequency commensurate with the character, consistency, and volume of the contribution. However, the frequency of sampling shall be adequate to determine the compliance status of the indirect user exclusive of self-monitoring data submitted by the user. Specifically, the frequency of inspection and sampling of all SIUs as defined by the MCUA Rules and Regulations, shall be no less than once per year for inspection and no less than once per year for sampling. Also, in accordance with N.J.A.C. 7:14A-19.6(a)1, facilities which have an IPP permit from the POTW but do not meet the POTW's definition of SIU, and are not CIUs, must be inspected by the POTW once per year and must be sampled by the POTW at least once every three (3) years.
- b. Sample collection and analysis and the gathering of other compliance data shall be performed with sufficient care to produce evidence admissible in judicial enforcement proceedings.

7. Take Enforcement Actions

a. The permittee shall take enforcement actions based upon indirect users' noncompliance in accordance with its approved enforcement response plan.

8. Perform Data Management and Record Keeping

- a. The Permittee shall develop and maintain a data management system which includes industrial user inventory, characterization of discharge, compliance status, IPP permit status, and enforcement actions.
- b. The Permittee shall retain for a minimum of five (5) years all records of monitoring activities and results (whether or not such activities are required by this permit) and shall make such records available to EPA and the State upon request.

9. Notification Requirements

a. The Permittee shall notify its significant industrial users in writing of their obligation to comply with applicable requirements under Subtitles C and D of the Resource Conservation and Recovery Act (RCRA).

10. Pretreatment Annual Report

- a. The Permittee shall submit a report annually to the Bureau of Pretreatment and Residuals describing the Permittee's pretreatment activities for the twelve (12) month period from June 1 through May 31. In the event that the Permittee is not in compliance with any conditions or requirements of this permit, the Permittee shall also include the reason for noncompliance and state how and when the Permittee shall comply with such conditions and requirements.
- b. Submit the Annual Pretreatment Program Report: by July 1 of each year beginning from the effective date of the permit (EDP). (Activity #: DSW100001 Effective: 7/1/2015)
 - i. a summary of analytical results of the priority pollutant scans performed on the Delegated Local Agency's (DLA) influent, effluent, and sludge;
 - ii. a discussion of upset, interference, or pass through incidents, if any, at the DLA treatment plant(s) which the Permittee knows or suspects were caused by indirect users of the DLA system. The discussion shall include the reasons why the incidents occurred, the corrective actions taken, and, if known, the name and address of the indirect user(s) responsible;

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- iii. an updated list of the Permittee's industrial users including their names and addresses, and a list of deletions and additions. The Permittee shall provide a brief explanation for each deletion. The list shall identify the industrial users subject to Federal categorical standards and which set(s) of standards are applicable; significant/major non-categorical IUs (as defined by the DLA); and other regulated non-categorical industries. The Permittee shall characterize the compliance status of each industrial user with respect to the discharge limitations and reporting requirements;
- iv. a summary of the inspection and sampling activities conducted by the Permittee during the period covered by the annual report to gather information and data regarding industrial users;
- v. a summary of the compliance and enforcement activities during the period covered by the annual report. The summary shall include administrative and legal/judicial actions initiated by the permittee during the period noted;
- vi. a description of any significant changes in operating the pretreatment program which differ from the information in the Permittee's approved DLA pretreatment program including, but not limited to, changes concerning:
 - (1) the program's administrative structure
 - (2) local industrial discharge limitations
 - (3) monitoring program or monitoring frequencies
 - (4) Legal authority or enforcement policy
 - (5) funding mechanisms
 - (6) resource requirements
 - (7) staffing levels;
- vii. a summary of the annual pretreatment funding, including salaries (as a lump sum), analytical costs for both in-house and contract analyses, equipment costs, and other expenditures associates with implementation of the pretreatment program. The Permittee must also provide a manpower estimate in full-time equivalents (FTEs);
- viii. a summary of public participation activities to involve and inform the public. This shall include a copy of the annual publication of significant non-compliance, if such publication was needed to comply with N.J.A.C. 7:14A-19.10(b); and
- ix. other information as required and described in the NJDEP 403 Annual Report Guidance.
- x. Two copies of the Pretreatment Program Annual Report shall be submitted to the BPR in the form prescribed in that guidance. The reports shall be submitted to:

NJDEP, Mail Code - 401-02B Bureau of Pretreatment and Residuals 401 E. State Street P.O. Box 420 Trenton, N.J. 08625-0420.

11. CWEA Annual Report

- a. The Permittee must submit information required by N.J.A.C. 7:14A-19.6(c), (d) and (e) pertaining to the implementation of the DLA's approved pretreatment program.
- b. Submit the CWEA Annual Report: by February 1 of each year beginning from the effective date of the permit (EDP). (Activity #: DSW100001 Effective: 7/1/2015)

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c. Two copies of this report shall be submitted to:
 NJDEP, Mail Code 401-02B, Bureau of Pretreatment and Residuals 401 E. State Street
 P.O. Box 420
 Trenton, N.J. 08625-0420.

12. Grace Period Annual Report

- a. The permittee must submit the information required by N.J.A.C. 7:14A-19.6(h) and (i) pertaining to implementation of the DLA's approved pretreatment program.
- b. Submit the Grace Period Annual Report: by March 1 of each year beginning from the effective date of the permit (EDP). (Activity #: DSW100001 Effective: 7/1/2015)
- c. Two copies of this report shall be submitted to: NJDEP, Mail Code 401-02B, Bureau of Pretreatment and Residuals 401 E. State Street P.O. Box 420 Trenton, N.J. 08625-0420.

G. CONDITIONS FOR MODIFICATION

1. Notification requirements

a. The permittee may request a minor modification for a reduction in monitoring frequency for a non-limited parameter when four consecutive test results of "not detected" have occurred using the specified QL.

2. Causes for modification

- a. The Department may modify or revoke and reissue any permit to incorporate 1) any applicable effluent standard or any effluent limitation, including any effluent standards or effluent limitations to control the discharge of toxic pollutants or pollutant parameters such as acute or chronic whole effluent toxicity and chemical specific toxic parameters, 2) toxicity reduction requirements, or 3) the implementation of a TMDL or watershed management plan adopted in accordance with N.J.A.C. 7:15-7.
- b. The permittee may request a minor modification to eliminate the monitoring requirements associated with a discharge authorized by this permit when the discharge ceases due to changes at the facility.

3. Removal or Modification of Final WQBELs or Criteria End-of-Pipe Effluent Limitations for Chemical Specific Toxic Pollutants

- a. The Department will consider proposing to remove or modify a toxic pollutant's newly imposed final effluent limitation from the permit if any or all of the information in item "b" below is submitted for Departmental review and consideration.
- b. Items that will be considered include, but are not limited to:
 - i. Submission of additional effluent data (minimum of 2.5 consecutive years of monthly data) using an approved quantification level equal to or better than the Department's Recommended Quantification Level (RQL).

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- ii. Acceptable site-specific ambient data (e.g. hardness, pollutant specific data) collected in accordance with a NJDEP approved work plan.
- iii. Acceptable site-specific translator values developed in accordance with a NJDEP approved work plan.
- iv. Acceptable site-specific criteria developed in accordance with a NJDEP approved work plan.
- c. All studies require a NJDEP approved workplan that shall be submitted to the Department for approval on or before the effective date of the permit (EDP) + 6 months.
 - i. It is recommended that all ambient monitoring associated with the establishment of hardness values, pollutant concentrations, and site specific translator values be conducted under the confines of a single work plan.
- d. All final study reports and/or additional information shall be submitted to the Department on or before EDP + 36 months.
- e. The Department will review all submitted information and will either propose a permit action to remove/modify the final effluent limitation(s) or deny the modification request.

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Combined Sewer Management

A. MONITORING REQUIREMENTS

1. CSO Monitoring Requirements

a. Since the permittee does not own and/or operate any CSO outfalls, this section does not apply.

B. RECORDKEEPING

1. CSO Recordkeeping Requirements

a. The permittee shall identify the Combined Sewer System (CSS) complaint, maintenance, inspection, and repair documentation forms and related tracking forms and/or systems and the Permittee shall also specify how, where and when this documentation will be maintained.

C. REPORTING

1. CSO Reporting Requirements

a. Since the permittee does not own and/or operate any CSO outfalls, this section does not apply.

D. SUBMITTALS

1. CSO Submittal Requirements

- a. The permittee shall respond to all deficiencies cited by the Department within 30 days of notification. With adequate justification provided by the permittee, the Department may extend this deadline an additional 30 days.
- b. All reports submitted to the Department pursuant to the requirements of this permit shall comply with the signatory requirements of N.J.A.C. 7:14A-4.9., and contain the following certification:
 - i. "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information".
- c. Since multiple municipalities/permittees own separate portions of the hydraulically connected sewer system, the permittee shall work cooperatively with all other appropriate municipalities/permittees in the hydraulically connected sewer system to ensure that the Nine Minimum Controls (NMC) & Long Term Control Plans (LTCP) activities are being developed and implemented consistently. The permittee shall identify their joint and separate responsibilities with all other appropriate municipalities/permittees in the hydraulically connected sewer system regarding implementation of the NMCs and LTCPs. This information shall be provided/updated in the quarterly Progress Reports.
- d. The permittee shall summarize on a quarterly basis its CSO construction related activities, as well as those reported to them by the other CSO permittees, in their system. Notification through the TWA process is sufficient for this purpose. The permittee shall make these construction related activities available publically on their website or other acceptable means.

e. The permittee shall submit all information required by this permit via email or other electronic format acceptable to the Department to NJCSOProgram@dep.nj.gov. Until the Department can accept any file larger than 20 megabytes (MB), any larger file can be broken up into smaller segments and sent separately or can be sent via mail delivery on CDs or DVDs.

2. Updated Nine Minimum Control (NMC) Submittal Requirements

- a. The permittee shall submit GPS data in degrees-minutes-seconds (at a minimum to the tenth of a second accuracy) for all CSO regulators, pump stations and CSO outfalls owned/operated by the permittee in accordance with N.J.A.C. 7:1D-Appendix A, and NJ GIS protocol at http://www.state.nj.us/dep/gis/standard.htm. The permittee shall submit this GPS data: within 6 months from the effective date of the permit (EDP).
- b. The permittee shall submit a PDF of a sewer map: within 12 months from the effective date of the permit (EDP). This map shall depict the actual locations of the separate and combined sanitary sewers, CSO regulators and outfalls owned/operated by the permittee.

3. Long Term Control Plan (LTCP) Submittal Requirements

- a. The Department encourages a single LTCP to be developed and submitted on behalf of all of the permittees in a hydraulically connected sewer system. If the STP and the hydraulically connected municipalities work cooperatively to develop and implement a single, coordinated LTCP, the permittee may request an extension of time to the LTCP compliance schedule due dates consistent with Part IV.D.3.b below.
- b. The permittee shall develop an approvable LTCP that will include the Elements contained in Section G. The LTCP shall consist of the following steps and be submitted according to the schedule below.
 - i. Step 1a System Characterization Work Plan for the LTCP In accordance with Section G.1., unless otherwise approved by the Department in writing, the permittee shall submit an approvable System Characterization Work Plan: within 6 months from the effective date of the permit (EDP).
 - ii. Step 1b1 In accordance with G.1., the permittee shall submit the System Characterization Report: within 36 months from the effective date of the permit (EDP).
 - iii. Step 1b2 In accordance with G.2., the permittee shall submit the Public Participation Process Report: within 36 months from the effective date of the permit (EDP).
 - iv. Step 1b3 In accordance with G.3., the permittee shall submit the Consideration of Sensitive Areas Information of the LTCP: within 36 months from the effective date of the permit (EDP).
 - v. Step 2 Development and Evaluation of Alternatives for the LTCP In accordance with Sections G.2. through G.5. and G.9., the permittee shall submit an approvable Development and Evaluation of Alternatives Report: within 48 months from the effective date of the permit (EDP).
 - vi. Step 3 Selection and Implementation of the LTCP: In accordance with Sections G.2. and G.6. through G.9., the permittee shall submit an approvable Selection and Implementation of Alternatives Report: within 59 months from the effective date of the permit (EDP).
 - vii. Upon Departmental approval of the LTCP, the permittee shall begin implementation of the LTCP in accordance with the schedule contained therein.

- c. In accordance with Section G.9., the permittee shall submit an approvable baseline Compliance Monitoring Program (CMP) Work Plan: within 6 months from the effective date of the permit (EDP).
- d. Unless otherwise specified by the Department, in accordance with Section G.9. and the approved work plan, the permittee shall submit an approvable baseline CMP Report and data: within 36 months from the effective date of the permit (EDP).

4. CSO Progress Report Submittal Requirements

- a. The permittee shall Submit a progress report: within twenty-five (25) days after the end of every quarter beginning from the effective date of the permit (EDP).
- b. The Progress Reports shall be prepared in accordance with the following requirements:
 - The Progress Reports shall follow the outline structure of the permit requirements in Sections F and G.
 - ii. The Progress Reports shall include, at a minimum, a summary of all permit compliance deadlines, their progress to date and CSO control measures implemented by the permittee to comply with the NMCs. The progress reports shall also include a prioritized schedule for additional CSO control measures to be implemented, and the effectiveness of the implemented CSO control measures, pursuant to this permit for the previous calendar quarter.
 - iii. The first Progress Report shall include a summary of all CSO control measures implemented to date and the effectiveness of those control measures.
 - iv. Each Progress Report must include a verification that the Operation and Maintenance Manual, including the SOPs, Asset Management Plan and Emergency Plan, have been updated in accordance with this permit and amended annually, as necessary.
 - v. Each Progress Report shall contain a detailed discussion of, and document compliance with, the continued implementation of the NMCs and the manner in which all owners/operators of the hydraulically connected collection system participated in the development of the LTCP, including information regarding the development and status of the telephone hotline/website pursuant to Section F.8.
 - vi. Upon Departmental approval of the LTCP, the permittee shall begin implementation of the permittee's CSO control measures in accordance with the schedule in the approved LTCP.

E. FACILITY MANAGEMENT

1. CSO Discharge Requirements

a. Since the permittee does not own/operate any CSO outfalls, there are not CSO discharge requirements at this time.

2. Interstate Environmental Commission (IEC)

a. The permittee shall comply with the Interstate Environmental Commission's (IEC) "Water Quality Regulations", where applicable.

F. NINE MINIMUM CONTROL REQUIREMENTS

1. Proper Operation and Regular Maintenance Program Requirements

- a. The permittee shall continue to implement and update annually, an Operations & Maintenance (O&M) Program and corresponding Manual, including an Emergency Plan, in accordance with N.J.A.C. 7:14A-6.12, to ensure that the treatment works, including but not limited to collection system, the CSO outfalls, solids/floatables facilities, regulators, and related appurtenances which are owned/operated by the permittee are operated and maintained in a manner to achieve compliance with all terms and conditions of this permit.
- b. The permittee shall operate the treatment works using a licensed operator in accordance with N.J.S.A. 58:11-66(a), N.J.A.C. 7:14A-6.12(b) and N.J.A.C. 7:10A.
- c. The permittee shall provide adequate operator staffing for the treatment works.
- d. The permittee shall provide documentation that demonstrates that employees were provided with appropriate training to perform the operation and maintenance duties required and to follow the Standard Operating Procedures (SOPs) in the O&M Program and corresponding Manual. This shall include a current training program for the purpose of informing new employees and maintaining training levels for current employees in regards to the CSO O&M Program and corresponding Manual, including safety related concerns.
- e. The permittee shall implement an O&M Program & Manual that includes, at a minimum the following:
 - A directory of appropriate O&M staff, including a description of their individual responsibilities and emergency contact information.
 - ii. A description of the permittee's Fats, Oils and Greases (FOG) Program.
 - iii. An updated characterization of the entire collection system owned/operated by the permittee that conveys flows to the treatment works. The permittee may use previous studies to the extent that they are accurate and representative of a properly operated and maintained sewer system and of the currently required information.
- f. This characterization in Section F.1.e.iii above shall include a spreadsheet, organized by CSO outfall, as appropriate, of the capacity, dimensions, age, type of material, and specific location of the items listed below. This spreadsheet shall be completed no later than EDP + 6 months.
 - i. CSO Outfalls (if applicable);
 - ii. Tide gates (if applicable);
 - iii. Solids/floatables controls (if applicable);
 - iv. Regulators (if applicable);
 - v. Gravity lines and force mains (if applicable), including size, length and direction of flow;
 - vi. Pump stations (if applicable);
 - vii. Significant Indirect Users (SIUs); and
 - viii. Specific locations that have historically experienced the following: blockages, bottlenecks, flow constrictions, sewer overflows including to basements, streets and other public and private areas, or related incidences.

- g. The permittee shall delineate the characterization information required in Section F.1.f on a GIS map, as applicable, pursuant to N.J.A.C. 7:1D-Appendix A and shall follow the NJ GIS protocol at http://www.state.nj.us/dep/gis/standard.htm. This map shall be completed on or before the first annual update of the O&M Program and Manual.
- h. The permittee shall review its rules, ordinances, and/or its sewer use agreements and create an anticipated schedule to revise them within 6 months of the EDP if necessary. In general, this schedule shall not extend beyond the due date for the LTCP as per Part IV.D.3.b.iv. This schedule shall require the customer municipalities to:
 - i. operate and maintain their treatment works,
 - ii. identify I/I and reduce it to meet the definition of non-excessive infiltration (in combined and separately sewered areas) and non-excessive inflow (in separately sewered areas) where both terms are defined in N.J.A.C. 7:14A-1.2, and
 - iii. identify and eliminate interconnections and cross-connections in storm sewers.
- i. The permittee shall also include SOPs in the O&M Program and corresponding Manual for the operation, inspections, and scheduled preventative maintenance in accordance with the appropriate manufacturer's recommendations and equipment manuals at a minimum, to ensure that the entire collection system that is owned/operated by the permittee that conveys flows to the treatment works will function properly.
- j. At a minimum, the SOPs shall contain detailed instructions for system operations, such as frequency of inspections, regular maintenance, and the timely repair, and documentation of such information, of the entire collection system that conveys flows to the treatment works. These SOPs shall include procedures for the following items:
 - i. Ensure that the entire collection system owned/operated by the permittee that conveys flows to the treatment works functions in such a way as to not result in sewage overflows (except from designated CSO outfalls) including to basements, streets and other public and private areas, or bottlenecks/constrictions that limit flow in specific areas and prevent the downstream STP treatment capacity from being fully utilized, in accordance with Section F.4.
 - ii. Ensure that the storage and conveyance of combined sewage to the STP is maximized in accordance with Sections F.2 and F.4.
 - iii. Ensure that the impacts from SIUs contributing to the CSOs are minimized in accordance with Section F.3.
 - iv. Ensure there will be no dry weather overflows from any CSO in accordance with Section F.5.
 - Conduct a visual inspection program of sufficient scope and frequency of the CSS to provide reasonable assurance that unpermitted discharges, obstructions, damage, and DWOs will be discovered.
 - vi. Ensure the solids/floatables appurtenances will be maintained and the solids/floatables will be removed from the CSO discharge and disposed of properly at such frequency so as not to cause obstructions of flow for any future CSO discharges, in accordance with Part II of this permit and Section F.6.

- vii. Prevent the Intrusion upstream due to high tides and/or receiving water flooding into the entire collection system owned/operated by the permittee that conveys flows to the treatment works through proper operation and maintenance.
- viii. Provide a gravity sewer and catch basin inspection schedule and clean as necessary.
- ix. Provide a system for documenting, assessing, tracking, and addressing residential complaints regarding blockages, bottlenecks, flow constrictions, sewer overflows including to basements, streets and other public and private areas, or related incidents.
- x. Remove within one (1) week of the permittee becoming aware, any obstructions that are contributing to overflows due to debris, Fats, Oils and Greases, and sediment buildup, or other foreign materials in the collection system owned/operated by the permittee. Remove any other obstructions due to debris, Fats, Oils and Greases, and sediment buildup, or other foreign materials in the collection system owned/operated by the permittee as soon as practicable.
- xi. Require immediate steps to take corrective action(s) to repair damage and/or structural deterioration, address unpermitted discharges, and eliminate DWOs of the entire collection system owned/operated by the permittee that conveys flows to the treatment works.
- xii. Provide for ongoing I/I reduction strategies to meet the definition of non-excessive infiltration (in combined and separately sewered areas) and non-excessive inflow (in separately sewered areas) as defined in N.J.A.C. 7:14A-1.2 through the identification of excessive I/I sources and the prioritization and implementation of I/I reduction projects.
- xiii. Identify the equipment currently owned, operated, and maintained for investigating and maintaining the CSS and, at a minimum, reference the appropriate equipment manuals.
- xiv. Provide procedures whereby wet weather flows are maximized for conveyance to the STP and discharges from CSOs are minimized.
- k. The permittee shall incorporate an Asset Management Plan as part of the overall O&M strategy. This plan shall include an infrastructure inventory with infrastructure repair/replacement needs listed and scheduled according to priority/criticality, that demonstrates the entire collection system owned/operated by the permittee that conveys flows to the treatment works is perpetually and proactively managed with the appropriate resources (capital, staffing, training, supplies, equipment) allocated in the permittee's budget. This information shall be included in the permittee's budget as prepared and submitted to Department of Community Affairs, if appropriate. The Asset Management Plan shall be completed no later than EDP+12 months.
- The permittee shall also include in the O&M Program and corresponding Manual, an Emergency Plan, in accordance with N.J.A.C. 7:14A-6.12(d). The Emergency Plan shall provide for, to the maximum extent possible, uninterrupted treatment works operation during emergency conditions using in-house and/or contract based services. The Emergency Plan shall include Standard Operating Procedures (SOPs), which ensure the effective operation of the treatment works under emergency conditions, such as extreme weather events and extended periods of no power.
- m. The permittee shall amend the O&M Program & Manual on at least an annual frequency to reflect updated information and changes in the characterization, design, construction, operations, maintenance, Emergency Plan, and SOPs as listed in Section F.1, and include verification that the O&M Program and corresponding Manual has been prepared and updated in accordance with the submittal requirements in Section D.4.

2. Maximum use of the collection system for storage

- a. The permittee shall use the entire collection system owned/operated by the permittee for in-line storage of sewage for future conveyance to the STP when sewer system flows subside by ensuring that the sewage is retained in the sewer system to the extent possible to minimize CSO discharges (i.e. volume, frequency and duration), while not creating or increasing sewage overflows, including to basements, streets and other public and private areas.
- b. The permittee shall minimize the introduction of sediment and obstructions in the entire collection system owned/operated by the permittee that conveys flows to the treatment works pursuant to Sections F.1. and F.7.
- c. The permittee shall operate and maintain the entire collection system owned/operated by the permittee that conveys flows to the treatment works pursuant to Section F.1.
- d. The permittee shall identify and implement minor modifications, based on the ongoing evaluations, to enable appropriate segments of the collection system owned/operated by the permittee to store additional wet weather flows to reduce any CSOs until downstream sewers and treatment facilities can adequately convey and treat the flows.

3. Review and modification of pretreatment requirements to assure CSO impacts are minimized

- a. The permittee shall determine the locations, associated CSO outfalls and discharge volume, loading and toxicity of the SIUs for the entire collection system which is owned/operated by the permittee; determine and prioritize the potential environmental impact of these SIUs by CSO outfall; include this information in the characterization portion of the O&M Program and Manual as required in Section F.1. This information shall be updated annually in the Progress Report in accordance with Section D.4.
- b. The permittee shall require that SIUs investigate ways to minimize their discharges during wet weather and report their findings to the permittee.
- c. The permittee shall establish agreements with SIUs or ordinances specifying that the SIUs (especially for batch discharges, non-continuous dischargers) should restrict discharges to the extent practical during wet weather periods.

4. Maximization of flow to the POTW for treatment

- a. The permittee shall operate and maintain the entire collection system owned/operated by the permittee that conveys flows to the treatment works to maximize the conveyance of wastewater to the STP for treatment subject to existing capacity.
- b. The permittee shall evaluate and implement alternatives for increasing flow to the STP in accordance with i and ii below that do not require extensive engineering studies or significant construction costs:
 - i. Capacity evaluations of the entire collection system owned/operated by the permittee that conveys flows to the treatment works in accordance with Section F.1.f to determine the maximum amount of flow that can be stored and transported.
 - ii. Identification of other activities conducted and/or planned to further maximize flow to the POTW.

5. Prohibition of CSOs during dry weather

a. The permittee shall operate the system in such a way that it does not cause any dry weather overflow from the collection system owned/operated by other permittees in the hydraulically connected system.

6. Control of Solids/Floatables in CSOs

a. Since the permittee does not own and/or operate any CSO outfalls, this section does not apply.

7. Implementation of Pollution Prevention Measures

- a. The permittee shall [encourage municipalities to] continue to implement and upgrade pollution prevention measures necessary to prevent and limit contaminants from entering the entire collection system owned/operated by the permittee that conveys flows to the treatment works. Unless demonstrated to the Department to be impracticable measures, shall include, but not be limited to, the following:
 - i. Implementation of a regular street cleaning program.
 - ii. Retrofitting of existing storm drains to meet the standards in Appendix B, where such inlets are in direct contact with repaving, repairing (excluding repair of individual potholes), reconstruction, resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen) or alterations of facilities owned/operated by the permittee. For exemptions to this standard see "Exemptions" listed in Appendix B.
 - iii. Implementation of stormwater pollution prevention rules and ordinances.
 - iv. Implementation of solid waste collection and recycling ordinances.
 - v. Implementation of public education programs.
- b. The permittee shall enforce rules and regulations on illegal connections and unauthorized discharge(s) into the POTW
- c. The permittee shall submit a schedule to revise applicable rules, ordinances and sewer use agreements to address the reduction of inflow and infiltration (I/I) into the collection system in accordance with Part IV.F.1.h.

8. Public notification to ensure that the public receives adequate notification of CSO occurrences and CSO impacts

a. Since the permittee does not own and/or operate any CSO outfalls, this section does not apply.

9. Monitoring to effectively characterize CSO impacts and the efficacy of CSO controls

a. Since the permittee does not own and/or operate any CSO outfalls, this section does not apply.

G. LONG TERM CONTROL PLAN REQUIREMENTS

1. Characterization Monitoring and Modeling of the Combined Sewer System

- a. The permittee, as per D.3.a and G.10, shall submit an updated characterization study that will result in a comprehensive characterization of the CSS developed through records review, monitoring, modeling and other means as appropriate to establish the existing baseline conditions, evaluate the efficacy of the CSO technology based controls, and determine the baseline conditions upon which the LTCP will be based. The permittee shall work in coordination with the combined sewer communities which is hydraulically connected to this STP, for appropriate Characterization, Monitoring and Modeling of the Sewer System.
- b. The characterization shall:
 - include a thorough review of the entire collection system that conveys flows to the treatment works, including areas of sewage overflows, including to basements, streets and other public and private areas, to adequately address the response of the CSS to various precipitation events;
 - identify the number, location, frequency and characteristics of CSOs; and
 - identify water quality impacts that result from CSOs.

Ambient in-stream monitoring may be performed in accordance with the guidance document entitled: "Receiving Waters Monitoring Work Plan Guidance for the CSO Program" available at www.state.nj.us/dep/dwq.

- c. The permittee may use previous studies to the extent that they are accurate and representative of a properly operated and maintained sewer system and of the currently required information, such as:
 - Combined Sewer Overflow Discharge Characterization Study -- System Inventory and Assessment Report for the City of Perth Amboy Department of Municipal Utilities, prepared by CDM, dated May 2004;
 - Combined Sewer Overflow Discharge Characterization Study -- Service Area Drainage and Land Use Report for the City of Perth Amboy Department of Municipal Utilities, prepared by CDM, dated May 2004; and
 - Combined Sewer Overflow Discharge Characterization Study for the City of Perth Amboy Utilities Service Affiliates USAPA, Prepared by CDM, dated September 2007.
- d. The major elements of the sewer system characterization are noted below:
 - Rainfall Records The permittee shall examine the historical rainfall record for the geographic area of its existing CSS using sound statistical procedures and best available data. The permittee shall evaluate flow variations due to precipitation events in the receiving waterbody to correlate between CSOs and receiving water conditions.
 - ii. Combined Sewer System Characterization the permittee shall evaluate sewer system records, field inspections gathered from the O&M Characterization required under Section F.1. (and previous relevant studies), and other activities necessary to understand the number, location and frequency of overflows and their location relative to sensitive areas and to pollution sources in the collection system, such as SIUs.

- iii. CSO Monitoring Using all available information the permittee shall develop and/or update a previously existing, comprehensive, representative monitoring program that measures the frequency, duration, flow rate, volume and pollutant concentration of CSO discharges and assesses the impact of the CSOs on the receiving waters. The monitoring data may utilize existing data from previous studies, and must include necessary CSO effluent and ambient in-stream monitoring for pathogens (including current and recreational standards for bacteriological indicators (e.g., fecal coliform, Enterococcus and E. Coli)). Only ambient monitoring data collected in accordance with a Department-approved Quality Assurance/Quality Control program shall be used. A representative sample of overflow points can be selected that is sufficient to allow characterization of CSO discharges, their water quality impacts and to facilitate evaluation of control plan alternatives.
- iv. Modeling the permittee may employ NJDEP or EPA approved models, which include appropriate calibration and verification with field measurements, to aid in the characterization. If models are used they shall be identified by the permittee along with an explanation of why the model was selected and used in the characterization. The permittee should base its choice of a model on the characteristics of the entire collection system that conveys flows to the treatment works (including flows from other hydraulically connected municipal sewer systems), the number and location of overflow points, and the sensitivity of the receiving water body to the CSO discharges. The sophistication of the model should relate to the complexity of the system to be modeled and to the information needs associated with evaluation of CSO control options and water quality impacts. Because of the iterative nature of modeling sewer systems, CSOs, and their impacts, monitoring and modeling efforts are complementary and should be coordinated with other affected entities.
- v. The permittee shall identify sensitive areas where CSOs occur. These areas include designated Outstanding National Resource Waters, National Marine Sanctuaries, waters with threatened or endangered species and their habitat, waters used for primary contact recreation (including but not limited to bathing beaches), public drinking water intakes or their designated protection areas, and shellfish beds.

2. Public Participation Process

a. The permittee shall submit a Public Participation Process Report in accordance with D.3.a. The permittee may use information from the following previous submittals:

Middlesex County Utilities Authority -- Public Participation Report, NJPDES Individual Permit No. NJ0020141, August 2007.

City of Perth Amboy — Public Participation Report for the City of Perth Amboy, NJPDES Permit No. NJ0105023, prepared by Hatch Mott MacDonald.

b. Implementation shall actively involve the affected public throughout each of the 3 Steps of the LTCP process. The affected public includes rate payers (including rate payers in the separate sewer sections), industrial users of the sewer system, persons who reside downstream from the CSOs, persons who use and enjoy the downstream waters, and any other interested persons. A Public Participation Process Report shall include the following elements:.

- i. Conduct outreach to inform the affected/interested public (during the development of the permittee's LTCP) through various methods which may include: public meetings, direct mailers, billing inserts, newsletters, press releases to the media, postings of information on the permittee's website, hotline, development of advisory committees, etc.; and to.
- ii. Invite members of the affected/interested public to join a Supplemental CSO Team to work with the permittee's assigned staff, consultants and/or contractors as required in Part IV, Section G.2.c. of the permit.
- c. The permittee shall invite members of the affected/interested public to establish a Supplemental CSO Team to work with the permittee's assigned staff from Section F.1 and to work as an informal work group as a liason between the general public and the decision makers for the permittee. The goals of the Supplemental CSO Team could consist of the following elements:
 - Meet periodically to assist in the sharing of information, and to provide input to the planning process;
 - Review the proposed nature and extent of data and information to be collected during LTCP development;
 - iii. Provide input for consideration in the evaluation of CSO control alternatives; and
 - iv. Provide input for consideration in the selection of those CSO controls that will cost effectively meet the Clean Water Act requirements.

3. Consideration of Sensitive Areas

- a. The permittee's LTCP shall give the highest priority to controlling overflows to sensitive areas, in accordance with D.3.a and G.10. Sensitive areas include designated Outstanding National Resource Waters, National Marine Sanctuaries, waters with threatened or endangered species and their habitat, waters used for primary contact recreation (including but not limited to bathing beaches), public drinking water intakes or their designated protection areas, and shellfish beds.
- b. The LTCP shall comply with the following requirements:
 - i. Prohibit new or significantly increased CSOs
 - ii. Eliminate or relocate CSOs that discharge to sensitive areas wherever physically possible and economically achievable, except where elimination or relocation would provide less environmental protection than additional treatment.
 - iii. Where elimination or relocation is not physically possible and economically achievable, or would provide less environmental protection than additional treatment, the permittee shall provide the level of treatment for remaining CSOs deemed necessary to meet WQS for full protection of existing and designated uses.

4. Evaluation of Alternatives

a. The permittee shall evaluate a reasonable range of CSO control alternatives, in accordance with D.3.a and G.10, that will meet the water quality-based requirements of the CWA using either the Presumption Approach or the Demonstration Approach (as described in Sections G.4.f.and G.4.g).

- b. The permittee shall submit, as per Section D.3.b.v, the Evaluation of Alternatives Report that will enable the permittee, in consultation with the Department, the public, owners and/or operators of the entire collection system that conveys flows to the treatment works, to select the alternatives to ensure the CSO controls will meet the water quality-based requirements of the CWA, will be protective of the existing and designated uses in accordance with N.J.A.C. 7:9B, give the highest priority to controlling CSOs to sensitive areas, and address minimizing impacts from SIU discharges.
- c. The permittee shall select either Demonstration or Presumption Approach for each group of hydraulically connected CSOs, and identify each CSO group and its individual discharge locations.
- d. The Evaluation of Alternatives Report shall include a list of control alternative(s) evaluated for each CSO.
- e. The permittee shall evaluate a range of CSO control alternatives predicted to accomplish the requirements of the CWA. In its evaluation of each potential CSO control alternative, the permittee shall use an NJDEP approved hydrologic, hydraulic and water quality models. The permittee shall utilize the models to simulate the existing conditions and conditions as they are expected to exist after construction and operation of the chosen alternative(s). The permittee shall evaluate the practical and technical feasibility of the proposed CSO control alternative(s), and water quality benefits of constructing and implementing various remedial controls and combination of such controls and activities which shall include, but not be limited to the controls below:
 - i. Green infrastructure.
 - ii. Increased storage capacity in the collection system.
 - iii. STP expansion and/or storage at the plant (an evaluation of the capacity of the unit processes must be conducted at the STP resulting in a determination of whether there is any additional treatment and conveyance capacity within the STP). Based upon this information, the permittee shall determine (modeling may be used) the amount of CSO discharge reduction that would be achieved by utilizing this additional treatment capacity while maintaining compliance with all permit limits
 - iv. I/I reduction to meet the definition of non-excessive infiltration and non-excessive inflow as defined in N.J.A.C. 7:14A-1.2 in the entire collection system that conveys flows to the treatment works to free up storage capacity or conveyance in the sewer system and/or treatment capacity at the STP, and feasibility of implementing in the entire system or portions thereof.
 - v. Sewer separation.
 - vi. Treatment of the CSO discharge.
 - vii. CSO related bypass of the secondary treatment portion of the STP in accordance with N.J.A.C. 7:14A-11.12 Appendix C, II C.7.

- f. The "Presumption" Approach, in accordance with N.J.A.C 7:14A-11 Appendix C provides: A program that meets any of the criteria listed below will be presumed to provide an adequate level of control to meet the water quality-based requirements of the CWA, provided the Department determines that such presumption is reasonable in light of the data and analysis conducted in the characterization, monitoring, and modeling of the system and the consideration of sensitive areas described above.
 - Combined sewer flows remaining after implementation of the NMCs and within the criteria specified in this Section at G.4.f.i. and ii. shall receive minimum treatment in accordance with the items below:
 - Primary clarification (removal of floatables and settleable solids may be achieved by any combination of treatment technologies or methods that are shown to be equivalent to primary clarification),
 - Solids and floatables disposal, and
 - Disinfection of effluent, if necessary, to meet WQS, protect designated uses and protect human health, including removal of harmful disinfection chemical residuals/by-products (e.g. chlorine produced oxidants), where necessary.

The permittee must demonstrate any of the following three criteria below:.

- i. No more than an average of four overflow events (see below) per year from a hydraulically connected system as the result of a precipitation event that does not receive the minimum treatment specified below. The Department may allow up to two additional overflow events per year. For the purpose of this criterion, an 'event' is:
 - In a hydraulically connected system that contains only one CSO outfall, multiple periods of overflow are considered one overflow event if the time between periods of overflow is no more than 24 hours.
 - In a hydraulically connected system that contains more than one CSO outfall, multiple periods of overflow from one or more outfalls are considered one overflow event if the time between periods of overflow is no more than 24 hours without a discharge from any outfall.
- ii. The elimination or the capture for treatment of no less than 85% by volume of the combined sewage collected in the CSS during precipitation events on a hydraulically connected system-wide annual average basis.
- iii. The elimination or removal of no less than the mass of the pollutants, identified as causing water quality impairment through the sewer system characterization, monitoring, and modeling effort, for the volumes that would be eliminated or captured for treatment under Section G.4.f.ii.
- g. The "Demonstration" Approach, in accordance with N.J.A.C. 7:14A-11 Appendix C provides: A permittee may demonstrate that a selected control program, though not meeting the criteria specified under the Presumption Approach above, is adequate to meet the water quality-based requirements of the CWA.

The permittee must demonstrate each of the following below:

i. The planned control program is adequate to meet WQS and protect designated uses, unless WQS or uses cannot be met as a result of natural background conditions or pollution sources other than CSOs.

- ii. The CSO discharges remaining after implementation of the planned control program will not preclude the attainment of WQS or the receiving waters' designated uses or contribute to their impairment.
- iii. The planned control program will provide the maximum pollution reduction benefits reasonably attainable.
- iv. The planned control program is designed to allow cost effective expansion or cost effective retrofitting if additional controls are subsequently determined to be necessary to meet WQS or designated uses.

5. Cost Performance Considerations

a. The permittee shall submit in accordance with the submittal requirements at Sections D.3.a. and D.3.b.v., the cost/performance considerations that demonstrate the relationships among proposed control alternatives that correspond to those required in accordance with Section G.4. This shall include an analysis to determine where the increment of pollution reduction achieved in the receiving water diminishes compared to the increased costs. If the permittee chooses to pursue the "Presumption Approach" of 'no more than an average of four discharge events per year', the permittee is not required to conduct this analysis for the other number of events (i.e. 0, 7, 10, 20). This analysis, often known as "knee of the curve", shall be among the considerations used to help guide selection of controls.

In accordance with Section G.1.a., the permittee may use previous studies to the extent that they are accurate and representative of a properly operated and maintained sewer system and of the currently required information, such as:

For MCUA:

- Central Treatment Plant Conveyance and Capacity Analysis, Cost Performance Analysis Report NJPDES Permit No. NJ0020141, prepared by CDM, dated August 2007.

For Perth Amboy City:

- Long Term Combined Sewer Overflow Control Plan Cost and Performance Analysis Report for the City of Perth Amboy Utilities Service Affiliates USAPA, prepared by CDM, dated April 2007 and revised August 2008.

6. Operational Plan

a. Upon Departmental approval of the final LTCP and throughout implementation of the approved LTCP as appropriate, the permittee shall modify the O&M Program and Manual in accordance with D.3.a and G.10, to address the final LTCP CSO control facilities and operating strategies, including but not limited to, maintaining Green Infrastructure, staffing and budgeting, I/I, and emergency plans.

7. Maximizing Treatment at the Existing STP

a. The LTCP shall include the maximization of the removal of pollutants during and after each precipitation event at the STP, in accordance with D.3.a and G.10, ensuring that such flows receive treatment to the greatest extent practicable utilizing existing tankage for storage, while still meeting all permit limits.

b. The permittee shall incorporate the receiving STP's plan for maximizing flow and treatment at the STP.

8. Implementation Schedule

- a. The permittee shall submit a construction and financing schedule in accordance with D.3.a and G.10, for implementation of Department approved LTCP CSO controls. Such schedules may be phased based on the relative importance of the adverse impacts upon water quality standards and designated uses, the permittee's financial capability, and other water quality related infrastructure improvements, including those related to stormwater improvements that would be connected to CSO control measures.
- b. Upon Departmental approval of the LTCP, the permittee shall begin implementation of the LTCP in accordance with the schedule contained therein.
- c. In accordance with Section D.3.b.vi., the permittee shall submit an implementation schedule, including yearly milestones, which considers the items listed below:
 - i. Adequately addressing areas of sewage overflows, including to basements, streets and other public and private areas.
 - ii. CSO overflows that discharge to sensitive areas as the highest priority.
 - iii. Use impairment of the receiving water.
 - iv. The permittee's financial capability including, but not limited to, consideration of the factors below:
 - Median household income,
 - Total annual wastewater and CSO control costs per household as a percent of median household income.
 - Overall net debt as a percent of full market property value,
 - Property tax revenues as a percent of full market property value,
 - Property tax collection rate
 - Unemployment, and
 - Bond rating
 - v. Grant and loan availability.
 - vi. Previous and current residential, commercial and industrial sewer user fees and rate structures.
 - vii. Other viable funding mechanisms and sources of financing.
 - viii. Resources necessary to design, construct and/or implement other water related infrastructure improvements as part of an Asset Management Plan as per Part IV.F.1.

9. Compliance Monitoring Program (CMP)

a. The monitoring information collected from the ambient baseline monitoring phase of the CMP, in accordance with D.3.a., will be compared to subsequent CMP events during and after LTCP implementation to evaluate the effectiveness of implemented CSO controls.

- b. The permittee shall implement a CMP adequate to: verify baseline and existing conditions, the effectiveness of CSO controls, compliance with water quality standards, and protection of designated uses. This CMP shall be conducted before, during and after implementation of the LTCP and shall include a work plan to be approved by the Department that details the monitoring protocols to be followed, including the following necessary monitoring listed below:
 - i. Ambient in-stream monitoring may be performed in accordance with the guidance document entitled: "Receiving Waters Monitoring Work Plan Guidance for the CSO Program" at www.state.nj.us/dep/dwq.
 - ii. Discharge frequency for each CSO (days and hours per month).
 - iii. Duration of each discharge for each CSO (number of days).
 - Quality of the flow discharged from each CSO, which shall include pathogen monitoring at a minimum.
 - v. Rainfall monitoring in the vicinity of each CSO/municipality.
- c. The above monitoring must be completed for the baseline CMP Report and then at intervals as determined by the Department based on the implementation schedule in the approved LTCP but no less than once per permit cycle. The results must be submitted in the Progress Reports required in Section D.4.
- d. For the purposes of Part IV.G.9.b, the permittee may use previous studies to the extent that they are accurate and representative of a properly operated and maintained sewer system and of the currently required information. A list of the studies performed on the receiving waters is included in Appendix A/B/C at the end of this permit.

10. Permittee's LTCP Responsibilities

a. The permittee is responsible for submitting an LTCP that addresses all nine elements in Part IV.G. Where multiple permittees own/operate different portions of a hydraulically connected CSS, the permittee is required to work cooperatively with all other permittees to ensure the LTCPs are consistent. The LTCP documents must be based on the same data, characterization, models, engineering and cost studies, and other information, where appropriate. Each permittee is required to prepare the necessary information for the portion of the hydraulically connected system that the permittee owns/operates and provide this information to the other permittees within the hydraulically connected system in a timely manner for LTCP submission.

Masterfile #: 5280 **PI #:** 46606

RWBR Approval Status List

The permittee is only authorized to utilize RWBR for the specific category, type and location that has been approved in the table below.

RWBR	Specific RWBR	Location	Status
Category	Туре		
PA	Spray Irrigation (Golf Course)	None	Not Approved
PA	Spray Irrigation (Athletic Fields, Playgrounds)	None	Not Approved
PA	Spray Irrigation (Residential Lawns)	None	Not Approved
PA	Vehicle Washing	None	Not Approved
PA	Hydroseeding/Fertilizing	None	Not Approved
PA	Decorative Fountains	None	Not Approved
PA	Toilet Flushing	None	Not Approved
RA-LA	Sod Irrigation	None	Not Approved
RA-LA	Spray Irrigation within a fenced perimeter or otherwise restricted area	None	Not Approved
RA-LA	Spray Irrigation within a fenced perimeter or otherwise restricted area (Without NH3 + NO3)	Middlesex County UA	Approved
RA-LA	Spray Irrigation (not fenced or restricted area)	None	Not Approved
RA-CM	Street Sweeping	Middlesex County UA	Approved
RA-CM	Dust Control	None	Not Approved
RA-CM	Fire Protection	Middlesex County UA	Approved
RA-CM	Vehicle Washing (at STP or DPW)	None	Not Approved
RA-CM	Composting	None	Not Approved
RA-IS	Sanitary Sewer Jetting	Middlesex County UA - Sewer Service Area	Approved
RA-IS	Non-Contact Cooling Water	None	Approved
RA-IS	Boiler Makeup Water	None	Not Approved
RA-IS	Road Milling	None	Not Approved
RA-IS	Hydrostatic Testing	None	Not Approved
RA-IS	Parts Washing	None	Not Approved
RA-IS	STP Washdown	Middlesex County UA	Approved

Abbreviations:

Categories:

C			UA – Utilities Authority
PA	Public Access	NH3 -	Ammonia
RA-LA	Restricted Access-Land Application and Non-Edible Crops	NO3 -	Nitrate
RA-CM	Restricted AccessConstruction and Maintenance Operations	STP -	Sewage Treatment Plant
RA-IS	Restricted AccessIndustrial Systems	DPW -	Dept. of Public Wor

Annual Reuse Report

Any facility that has received an RWBR authorization is required to submit an Annual Reuse Report. The following information, at a minimum, shall be included in the report, due on February 1st of each year.

(1)		ewater reused (R) by the factorial lar year, report R as zero and	ility in the previous calendar year. It skip to (6) below;	If no wastewater was r	eused in the	
				R =	gallons	
(2)	The total waste	water discharged (D) by the	facility in the previous calendar year			
(2)	TDI . C	1 (0/ D) 1	a 6 '1', ' a ' ' 1 1	D =		
(3)	The percent of	` ' ' -	the facility in the previous calendar y	ear, calculated as follo	ws:	
		$\% \mathbf{K} = \mathbf{K}/($	R+D), expressed as a percent;	%R =	narcant	
(4)	The total waste	water that was reused for e	ach reuse type in the previous calen	dar vear This inform	percent	
(1)	be provided in	the chart format utilized in the	ne RWBR Usage Table below;	idai year. Ting inform	ation should	
	r					
			RWBR Usage Table			
	RWBR	Specific RWBR Type	Location	Flow		
	Category	~p************************************				
	3 3 3			(gallons)	_	
					-	
					_	
					1	
					-	
					_	
					-	
					_	
		Δttach	additional pages as necessary.			
		7 ttttein	additional pages as necessary.			
(5)) An update	to the correlation between To	otal Suspended Solids and Turbidity,	if necessary;		
. ,	1		1	Correlation =		
(6)		ompleted copy of this form to	o:			
		per copies:	For electronic copies:			
		Mail Code 401 – 02B <u>ben.manhas@dep.state.nj.us</u>				
		Division of Water Quality				
		Bureau of Surface Water Permitting				
		D. Box 420 enton, NJ 08625-0420				
	116	mon, nj 00023-0420				

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Permit No.: NJ0020141

Annual Reuse Report - SAMPLE

Any facility that has received an RWBR authorization is required to submit an Annual Reuse Report. The following information, at a minimum, shall be included in the report, due on February 1st of each year.

(1)	The total wastewater reused (R) by the facility in the previous calendar year. If no wastewater was reus	ed in the
	previous calendar year, report R as zero and skip to (6) below;	
	R =	_ gallons
(2)	The total wastewater discharged (D) by the facility in the previous calendar year;	
	D =	_ gallons
(3)	The percent of wastewater reused (%R) by the facility in the previous calendar year, calculated as follows:	
	%R = R/(R+D), expressed as a percent;	
	R =	_ percent
(4)	The total wastewater that was reused for each reuse type in the previous calendar year. This information	n should

RWRR Usage Table

be provided in the chart format utilized in the RWBR Usage Table below;

RWBR Usage Table				
RWBR Category	Specific RWBR Type	Location	Flow	
Category			(gallons)	
	For Example:			
RA-CM	Street Sweeping	Local Township	42,000	
RA-IS	Sanitary Sewer Jetting	Facility Sewer Service Area	15,000	
RA-IS	STP Washdown	Sewage Treatment Plant	43,000	
		Grand Total (R)	100,000	

Attach additional pages as necessary.

(5)	An update to the correlation between Total Suspen-	led Solids and Turbidity, if necessary;
		Correlation –

(6) Submit a completed copy of this form to:

For paper copies:

Mail Code 401 – 02B

Division of Water Quality

Bureau of Surface Water Permitting

P.O. Box 420

Trenton, NJ 08625-0420

For electronic copies: ben.manhas@dep.state.nj.us

Appendix C

Design Standards for Storm Drain Inlets

Grates in pavement or other ground surfaces, such as roads (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels and stormwater basin floors used to collect stormwater from the surface into a storm drain or surface water body, shall meet the following standards:

- 1. The New Jersey Department of Transportation (NJDOT) bicycle safe grate standards described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (April 1996).
- 2. A grate where each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is not greater than 0.5 inches across the smallest dimension.
- 3. For curb-openings inlets, including curb-opening inlets in combination inlets, the clear space in the curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches or be no greater than two (2.0) inches across the smallest dimension.

The following exemptions apply:

- 1. Where each individual clear space in the curb opening in existing curb-opening inlets do not have an area of more than nine (9.0) square inches.
- 2. Where the review agency determines that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets.
- 3. Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:
 - a. A rectangular space four and five-eighths inches long and one and one-half inches wide (this option does not apply for outfall netting facilities); or
 - b. A bar screen having a bar spacing of 0.5 inches.
- 4. Where flows are conveyed through a trash rack that has parallel bars with one inch (1") spacing between the bars, to the elevation of the water quality design storm as specified in N.J.A.C. 7:8.
- 5. Where the Department determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet the standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.